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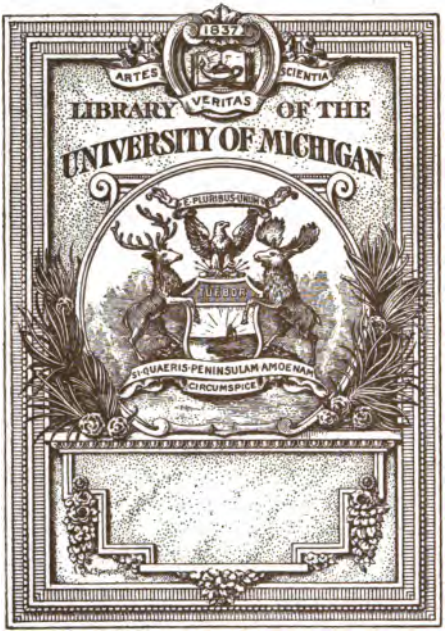
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CATALOGUE

OF

PRINCETON UNIVERSITY

ONE HUNDRED AND FIFTY-EIGHTH YEAR

1904-1905

PRINCETON, NEW JERSEY
PUBLISHED BY THE UNIVERSITY
1904

PRINCETON, N. J.
THE PRINCETON PRESS

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OFFICE HOURS

THE PRESIDENT OF THE UNIVERSITY.—Prospect, 2.30 to 4 P. M., daily.

THE TREASURER OF THE UNIVERSITY.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.; July 1 to September 1, 9 A. M. to 12 M.

THE REGISTRAR OF THE UNIVERSITY.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.

THE SECRETARY OF THE UNIVERSITY. — Chancellor Green Library, 10 A. M. to 12 M., daily.

THE CURATOR OF GROUNDS AND BUILDINGS.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M., daily.

THE DEAN OF THE GRADUATE SCHOOL.—Chancellor Green Library, 10 to 11 A. M., Mondays and Thursdays.

THE DEAN OF THE FACULTY.—Dean's House, Mondays, Tuesdays, Thursdays and Fridays, 2 to 4 P. M.; Wednesdays and Saturdays, 2 to 3 P. M.

THE COMMITTEE ON ENTRANCE, Professor Loomis, Secretary,—302 Nassau Street, 7 to 9 P. M., daily.

THE COMMITTEE ON ATTENDANCE meets in the Faculty Room, University Offices, on Thursday, from 1.30 to 2.30 P. M. Requests and excuses for absence should be presented by the student in person.

THE COMMITTEE ON EXAMINATIONS AND STANDING, Professor Vreeland, Secretary,—The Chancellor Green Library, 12 M. to 1 P. M., Mondays and Wednesdays.

THE COMMITTEE ON SPECIAL STUDENTS, Mr. Priest, Secretary,—5 South East David Brown Hall, 2.15 to 3 P. M., Mondays, Wednesdays, and Fridays.

THE COMMITTEE ON OUT-DOOR SPORTS, Professor McClenahan, Secretary,—The Physical Laboratory, 12 M. to 1 P. M., Mondays, Tuesdays, and Wednesdays.

THE COMMITTEE ON NON-ATHLETIC ORGANIZATIONS, Professor Axson, Secretary,—10 Nassau Street, 2 to 3 P. M., Thursdays.

THE UNIVERSITY FACULTY meets on the first Thursday of the University year, immediately after the opening exercises of the year, and thereafter on the first and third Mondays of each month, at 5 o'clock in the afternoon. The ACADEMIC FACULTY meets on the second Monday of each month, at 5 in the afternoon; the FACULTY OF THE SCHOOL OF SCIENCE on the fourth Monday of each month, at the same hour. For calendar of Faculty meetings see page 12.

For Catalogues of Princeton University apply to Mr. C. W. MCALPIN, Secretary of the University, Princeton, New Jersey.

For information concerning Entrance and Courses of Instruction apply to Mr. H. N. VAN DYKE, Registrar of the University, Princeton, New Jersey.

For information concerning the Graduate School apply to PROFESSOR A. F. WEST, Dean of the Graduate School, Princeton, New Jersey.

CALENDAR

1904

Sept. 19–24. Examinations for removal of first and second term conditions.

Sept. 19–21. Examinations for admission and the removal of entrance conditions, in Princeton only.

Sept. 21. First term begins.

Sept. 22. Formal opening exercises at 3 P. M.

Sept. 28. Preliminary examination of candidates for the Doctor's degree.

Oct. 21. Meeting of the Board of Trustees.

Oct. 22. Commemoration Day.

Nov. 23, 2 P. M.–Nov. 28, 10 A. M. Thanksgiving recess.

Nov. 24. Thanksgiving Day.

Dec. 8. Meeting of the Board of Trustees.

Dec. 12–17. Examinations for removal of entrance conditions.

Dec. 21, 2 P. M. Christmas vacation begins.

1905

Jan. 5, 10 A. M. Christmas vacation ends.

Feb. 8. First term examinations end.

Feb. 9. Second term begins.

Feb. 22. Washington's Birthday.

March 9. Meeting of the Board of Trustees.

March 29, 12 M. Meeting of Faculty Committee on Course of Study.

April 19. Examinations for removal of first term conditions end.

April 19, 2 P. M.–Apr. 25, 10 A. M. Spring recess.

June 3. End of Senior final examinations.

June 9. End of examinations of the three lower classes.

June 10. Junior Orator and Maclean Prize contests.

June 11. Baccalaureate address by the President of the University in Alexander Hall.

June 12. Class Day.

June 12. Commencement meeting of the Board of Trustees.

June 13. Election of an Alumni Trustee — Annual meetings of Literary Societies and Alumni Association—Lynde Prize Debate.

June 14. 158th Annual Commencement.

June 15–17. Examinations for admission, held simultaneously in Princeton and elsewhere.

Sept. 18–23. Examinations for removal of first and second term conditions.

Sept. 18–20. Examinations for admission, held in Princeton only.

Sept. 20. First term begins.

Sept. 21. Formal opening exercises at 3 P. M.

Sept. 27. Preliminary examination of candidates for the Doctor's degree.

Oct. 21. Meeting of the Board of Trustees.

Oct. 22. Commemoration Day.

Nov. 29, 2 P. M.–Dec. 4, 10 A. M. Thanksgiving recess.

Nov. 30. Thanksgiving Day.

Dec. 11–16. Examinations for removal of entrance conditions.

Dec. 14. Meeting of the Board of Trustees.

Dec. 20, 2 P. M. Christmas vacation begins.

1906

Jan. 4, 10 A. M. Christmas vacation ends.
Feb. 7. First term examinations end.
Feb. 8. Second term begins.
Feb. 22. Washington's Birthday.
March 8. Meeting of the Board of Trustees.
March 28, 12 M. Meeting of Faculty Committee on Course of Study.
April 11. Examinations for removal of first term conditions end.
April 11, 2 P. M.–April 17, 10 A. M. Spring recess.
June 2. End of Senior final examinations.
June 8. End of examinations of the three lower classes.
June 9. Junior Orator and Maclean Prize contests.
June 10. Baccalaureate Address by the President of the University in Alexander Hall.
June 11. Class Day. Commencement meeting of the Board of Trustees.
June 12. Election of an Alumni Trustee—Annual meetings of the Literary Societies and Alumni Association—Lynde Prize Debate.
June 13. 159th Annual Commencement.

Faculty Meetings, 1904–1905.

All meetings but the first at 5 P. M.

University Faculty: September 22, October 5, 17, November 7, 21, December 5, 19, January 16, February 6, 20, March 6, 20, April 3, 17, May 1, 15, June 5.

Academic Faculty: September 28, November 14, December 12, January 9, February 13, March 13, April 10, May 8.

School of Science Faculty: October 12, 24, November 28, January 23, February 27, March 27, May 22.

UNIVERSITY CALENDAR

JULY, 1904

S	M	T	W	T	F	S
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31						

AUGUST, 1904

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SEPTEMBER, 1904

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JANUARY, 1906

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MARCH, 1906

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APRIL, 1906

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MAY, 1906

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JUNE, 1906

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24	*25*	*26*	*27*	*28*	*29*	*30*

Days upon which the University is not in session are *italicized*.

PART I

OFFICERS OF THE UNIVERSITY

TRUSTEES OF THE UNIVERSITY

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* Died November 28, 1904.

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CORNELIUS C. CUYLER, A.M., Chairman.

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Committee on the Curriculum

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Committee on Morals and Discipline

JOHN DIXON, D.D., Chairman.

Committee on Honorary Degrees

THE PRESIDENT OF THE UNIVERSITY, Chairman.

Committee on the Graduate School

GROVER CLEVELAND, LL.D., Chairman.

Committee on Faculty Minutes

GEORGE B. STEWART, D.D., Chairman.

The stated meetings of the Board of Trustees are held on the day before Commemoration Day, in October, on the second Thursdays of December and March, and on the Monday before Commencement.

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48 Library Place.

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83 Bayard Lane.

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Professor of Greek and Instructor in Sanskrit.
Morven St.

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Professor of Physical Geography and Director of the E. M. Museum of Geology and Archæology.
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56 Bayard Lane.

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Professor of Descriptive Geometry, Stereotomy, and Technical Drawing.
Stony Brook.

*WILLIAM COWPER PRIME, LL.D.,
Professor of the History of Art.
38 E. 23d St., New York City.

* Died February 13, 1905.

ALLAN MARQUAND, PH.D., L.H.D.,
Professor of Archæology and the History of Art, and Director of the Museum of Historic Art.
Guernsey Hall.

ANDREW FLEMING WEST., PH.D., LL.D.,
HON. D. LITT., Oxon.,
DEAN OF THE GRADUATE SCHOOL,
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McCosh Professor of Philosophy.
276 Nassau St.

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Absent on Leave.

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DEAN OF THE FACULTY,
Dod Professor of Mathematics.
The Dean's House.

JOHN HOWELL WESTCOTT, PH.D., Princeton,
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200 Mercer St.

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78 Library Place.

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Librarian.
220 Mercer St.

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257 Nassau St.

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11 Morven St.

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Holmes Professor of Belles Lettres and English Language and Literature.
36 Mercer St.

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210 Mercer St.

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Stuart Professor of Logic.
62 Washington Road.

ARNOLD GUYOT CAMERON, PH.D., Princeton,
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26 Alexander St.

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59 Bayard Lane.

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20 Bank St.

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302 Nassau St.

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151 Little Hall.

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The Bachelors.

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5 Nassau St.

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10 Dickinson St.

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6 South Middle Reunion Hall.

DONALD WILLIAM RICHARDSON, A.M.,
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303 Hodge Hall, Seminary.

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NOTE.—For the office hours of the Secretaries of the various Standing Committees see page 8.

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Chancellor Green Fellow in Mental Science.

WILLIAM CAMPBELL KERR, A.B., 20 East Witherspoon Hall.
John Harding Page Classical Fellow.

CONWAY WING SHEARER, A.B., Tower Club.
Class of 1860 Fellow in Experimental Science.

LOUIS GARNER BISSELL, A.B., 8 North Reunion Hall.

DWIGHT WOODBRIDGE EDWARDS, A.B., 7 North Reunion Hall.

EMERSON BOYD MORROW, A.B., 16 South Edwards Hall.
J. S. K. Fellows in Mathematics.

*_____
Boudinot Fellow in Modern Languages.

DAVID MARSHAL AUSTIN, A.B., 9 South Middle Reunion Hall.
Boudinot Fellow in History.

*_____
E. M. Biological Fellow.

*_____
University Fellow in Archæology.

WILLIAM JOHN SINCLAIR, PH.D., 27 South Edwards Hall.
The Class of 1877 University Fellow in Biology.

SAMUEL BELDEN BOOTH, A.B., E, East Brown Hall.
The South East Club University Fellow in Social Science.

*No appointment.

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Thaw Fellow in Astronomy.

DANIEL LINDSEY THOMAS, A.M., 6 South Dod Hall.
Charles Scribner University Fellow in English.

FRANK ALBERT STROMSTEN, M.S., 43 University Hall.
The Francis Hinton Maule Fellow in Biology.

DONALD WILLIAM RICHARDSON, A.M., 303 Hodge Hall, Seminary.
Special Fellow in Latin.

PART II

HISTORY AND GOVERNMENT OF THE UNIVERSITY

HISTORY AND GOVERNMENT OF THE UNIVERSITY

At the beginning of the eighteenth century there were but three institutions of higher learning in the colonies: Harvard and Yale in New England, and the College of William and Mary in Virginia.

The coming of William Tennent, Sr., to America in 1716, exerted a wide influence upon religious and educational affairs. Tennent was born in Ireland in 1673 and received a liberal education at the University of Edinburgh, from which he was graduated in 1695. A few years later he was ordained a priest in the Church of Ireland. Becoming dissatisfied with the terms imposed upon the Episcopal clergy he was deprived of his living, and so came to America. He was admitted to the Synod of Philadelphia in 1718, and labored at East Chester and Bedford in New York until 1721, when he removed to the county of Bucks in Pennsylvania, and again, in 1726, to a point afterwards called the Forks of Neshaminy. Here he established a school which later became well known as the Log College. In this school were educated many whose names are intimately associated with the founding and early history of Princeton University. Among them may be noted Gilbert Tennent, John Blair, Samuel Blair, Samuel Finley, and Charles Beatty, whose lives bear the imprint of the zeal and teaching of the elder Tennent.

For a brief season the Log College flourished, but its work was over with the death of its founder in 1746. The growing need for an educational institution organized on a plan far larger than the school of Tennent became apparent. The success of the graduates of the Log College, who showed themselves equal to the positions usually occupied by graduates of the New England colleges or of the Scottish universities, proved to the people of the middle colonies that they need not be dependent upon distant seminaries of learning for an educated ministry. The first movement toward the permanent establishment of a college was begun in 1739 by the Synod of Philadelphia, which nominated a committee of four, "two of which, if they can be prevailed upon, to be sent home to Europe to prosecute this affair with proper directions." This committee was composed of Messrs. Pemberton, Dickinson, Cross and Anderson; two of whom, Ebenezer Pemberton and Jonathan Dickinson, were natives of New England. The former was graduated from Harvard and the latter from Yale. Dr. Anderson was from Scotland, and Cross was from Ireland. The committee entered at once upon its labors, but the times were not propitious. The outbreak of the war between England and Spain rendered the voyage abroad one of considerable hazard and danger; the calling of the Synod together for further consideration of the plan was abandoned and "the whole affair laid aside for a time." This was the last action taken by the united Church upon the subject.

A conflict which had been growing within the Synod finally led to its division in 1742. The separation grew out of the activity and the conflicting opinions of two factions as to the value of religious revivals, and the learning requisite for admission to the ministry. One was the party of the Log College, whose pupils were the leading men in the Presbytery of New Brunswick; the other had its strength in

the more conservative Presbytery of Philadelphia. Between these two parties stood the Presbytery of New York, led by Dickinson and Pemberton. Sincere and earnest efforts were made by the latter to effect a reconciliation, but to no purpose, and, inasmuch as the two parties could not be brought to an amicable understanding, the Presbytery of New York deemed it their duty to withdraw and organize another and separate synod. This was afterward duly accomplished by the union of the Presbyteries of New York, New Brunswick and New Castle.

After the schism, Dickinson, Pierson, Pemberton, Burr, and others, of the newly-formed Synod of New York, not satisfied with the limited course of instruction given at the Log College, turned their thoughts toward the establishment of an institution, in which ample provision should be made for a wide and liberal education. Convinced of the futility of awaiting united synodical action, and of the evils which would arise from the supervision of a church judicatory, they determined upon independent though concerted action. They sought a charter for the founding of a college in New Jersey, without assistance from either synod, which they "probably neither sought nor desired." The charter was granted and on the 22d of October, 1746, passed the great seal of the Province, attested by John Hamilton, President of his Majesty's Council, then acting Governor of New Jersey. A memorandum to this effect appears among the records of charters and commissions in the office of the Secretary of State, but the charter itself is not given. Its substance, however, is revealed in an advertisement which appeared in the *Pennsylvania Gazette* of August 13, 1747, which is as follows:

Philadelphia, August 13, 1746–7.

These are to give Notice to all concerned, That by His Majesty's Royal Charter for erecting a college in New-Jersey, for the instructing of youth in the learned languages, and in the liberal arts and

sciences, bearing date October 22d, 1746, Messrs. William Smith, Peter Vanbrugh Livingston, William Peartree Smith, gent. and Messrs. Jonathan Dickenson, John Pierson, Ebenezer Pemberton, and Aaron Burr, ministers of the gospel, are appointed trustees of the said college; with full power to any four or more of them, to chuse five more trustees to the exercise of equal power and authority in the said college, with themselves. By virtue of which power, the said trustees, nominated in the charter, have chosen the Rev. Messrs. Gilbert Tennant, William Tennant, Samuel Blair, Richard Treat, and Samuel Finley, as trustees of the said college of New-Jersey:

Which trustees are by the said charter, constituted a body corporate and politick, both in fact and name, with full power to act as such to all intents and Purposes, and rendred capable of a perpetual succession to continue forever. By which royal charter, there is authority given to the major part of any seven or more of the said trustees, and their successors conveen'd for that purpose, to purchase, receive, and dispose of any possessions, tenements, goods and chattels, gifts, legacies, donations and bequests, rents, profits and annuities of any kind whatsoever, and to build any house or houses, as they shall think proper, for the use of the said college. And also by the said charter is given to the major part of any seven or more of the said trustees and their successors, full power to chuse, and at pleasure to displace, a president, tutors, professors, treasurer, clerk, steward, and usher, with any other ministers, and officers as are usual in any of the universities or colleges in the realm of Great Britain.

And also by the said charter is given to the major part of any seven of the said trustees and their successors, full power to make any laws, acts and ordinances, for the government of the said college, as are not repugnant to the laws and Statutes of the realm of Great Britain, nor to the Laws of the Province of New-Jersey; provided, that no person be debarred any of the privileges of the said college on account of any speculative principles of religion; but those of every religious profession, having equal privilege and advantage of education in the said college. And also by the said charter, power is given to the major part of any seven of the said trustees and their successors, by their president, or any other appointed by them, to give any such degrees as are given in any of the universities or col-

leges in the realm of Great Britain, to any such as they shall judge qualified for such degrees; and power to have and use a common seal to seal and confirm diplomas or certificates of such degrees, or for any other use which they shall think proper.

And these may further notify all concern'd, that the said trustees have chosen the Rev. Mr. Jonathan Dickinson president, whose superior Abilities are well known; and Mr. Caleb Smith tutor of the said college; and that the college is now actually opened, to be kept at Elizabeth-Town, till a building can be erected in a more central place of the said province for the residence of the Students; that all who are qualified for it, may be immediately admitted to an academick education, and to such class and station in the college, as they are found upon examination to deserve; and that the charge of the college to each student, will be Four Pounds a year New-Jersey money, at Eight Shillings per ounce, and no more.

In this memorandum of the first charter, it will be seen that the remaining five Trustees, elected by the first named seven, were all, save Richard Treat, leading men of the Log College. With the death of its venerable founder, William Tennent, Sr., which occurred May 6, 1746, the work of the Log College was over and its forces represented by the Tennents, Samuel Blair, and Samuel Finley, were absorbed by the younger but more liberal institution. In casting in their lot with the Trustees of the College of New Jersey, the supporters of the Log College were probably influenced by a knowledge of the narrow scope and aims of the little academy they had fostered and its utter inability to meet the then existing requirements for an institution of the higher learning.

A second charter was granted two years later by Jonathan Belcher, royal Governor of New Jersey, and passed the seal of the Province on the 14th of September, 1748. So far as appears, the scope and educational design of the institution, the powers of the Trustees, and the degrees to be granted, were precisely the same in both instruments. The text of the second charter is as follows:

CHARTER OF THE TRUSTEES OF THE COLLEGE OF NEW JERSEY

George the Second by the Grace of God of Great Britain France and Ireland King Defender of the Faith etc. TO ALL TO WHOM these presents shall come GREETING. WHEREAS sundry of our loving Subjects, well disposed and publick spirited Persons, have lately by their humble petition, presented to our trusty and well beloved Jonathan Belcher Esquire Governor and Commander in Chief of our province of New Jersey in America, represented the great Necessity of comeing into some Method for encouraging and promoting a learned Education of our Youth in New Jersey, and have expressed their earnest Desire that a College may be erected in our said province of New Jersey in America, for the Benefit of the Inhabitants of the said Province and others, wherein Youth may be instructed in the learned Languages, and in the liberal Arts and Sciences. AND WHEREAS by the fundamental Concessions made at the first Settlement of New Jersey by the Lord Berkeley and Sir George Carteret then proprietors thereof, and granted under their Hands and the seal of the Said Province, bearing Date the Tenth Day of February in the Year of our Lord one thousand six hundred and Sixty four, it was, among other things conceded and agreed that "no Freeman within the said Province of New Jersey should at any time be molested, punished, disquieted, or called in Question for any difference in Opinion or Practice in Matters of religious Government, who do not actually disturb the civil peace of the said province, but that all and every such Person or Persons might from time to time and at all times thereafter freely and fully have and enjoy his and their judgments and Consciences, in Matters of Religion throughout the said Province they behaveing themselves peaceable and quietly and not using this Liberty to Licentiousness, nor to the civil Injury or outward disturbance of others." As by the said Concessions on Record in the Secretary's Office of New Jersey at Perth Amboy in Lib. 3 Folio 66 &c, may appear. WHEREFORE, and for that the said Petitioners have also expressed their earnest Desire that those of every religious Denomination may have free and equal Liberty and Advantages of Education in the said College, any different Sentiments in Religion notwithstanding: WE being, willing to grant the

reasonable Request and Prayers of all our loving Subjects and to promote a liberal and learned Education among them. KNOW YE THEREFORE THAT WE, considering the Premises, and being willing for the future that the best Means of Education be established in our said Province of New Jersey for the Benefit and Advantage of the Inhabitants of our said Province and others; DO, of our special Grace certain Knowledge and mere Motion, by these Presents will, ordain, grant and constitute, that there be a College erected in our said Province of New Jersey, for the Education of Youth in the learned Languages and in the liberal Arts and Sciences, and that the Trustees of the Said College and their Successors for ever may and shall be one Body Corporate and politick in Deed Action and Name, and Shall be called and named, and distinguished by the Name of THE TRUSTEES OF THE COLLEGE OF NEW JERSEY. AND further, wee have willed given granted constituted and appointed, And this by our present CHARTER of our special Grace, certain Knowledge and mere Motion, WE DO, for us our Heirs and Successors, will, give, grant, constitute and ordain that there shall in the said College from henceforth for ever be a Body politick, consisting of Trustees of the said College of New Jersey. AND, for the more full and perfect Erection of the said Corporation and Body Politick consisting of Trustees of the College of New Jersey WE of our especial Grace, certain Knowledge and mere Motion, DO by these presents for us our Heirs and Successors create, make, ordain, constitute nominate, and appoint the Governor, and Commander in Chief of our said Province of New Jersey for the Time being, and also our trusty and well beloved John Reading, James Hude, Andrew Johnston, Thomas Leonard, John Kinsey, Edward Shippen, and William Smith Esquires, Peter Van Brugh Livingston, William Peartree Smith and Samuel Hazard Gentlemen, John Pierson, Ebenezer Pemberton, Joseph Lamb, Gilbert Tennent, William Tennent, Richard Treat, Samuel Blair, David Cowel, Aaron Burr, Timothy Jones, Thomas Arthur, Jacob Green, Ministers of the Gospel, to be Trustees of the said College of New Jersey. [Repealed clause relative to oaths omitted.] THAT no Meeting of the Trustees Shall be Valid or legal for doing any Business whatsoever unless the Clerk has duly and legally notified each and every Member of the Corporation, of such Meeting, and that before the entering on any Business the Clerk

shall certify such Notification under his Hand to the Board or Trustees. THAT the said Trustees have full Power and Authority, or any thirteen [number changed] or greater Number of them, to elect nominate and appoint, and associate unto them any Number of Persons as Trustees, upon any Vacancy, so that the whole number of the Trustees exceed not twenty-three [altered to twenty-seven], whereof the president of the said College for the Time being to be chosen as hereafter mentioned, to be one, and twelve of the Said Trustees to be always Such persons as are Inhabitants of our said Province of New Jersey. AND WE DO FURTHER of our especial Grace, certain Knowledge, and meer Motion, for us our Heirs and Successors, will, give grant, and appoint, that the said Trustees and their Successors shall for ever here after be, in Deed, Fact, and Name a Body Corporate and Politick, and that they the said Body Corporate and Politick Shall be known and distinguished in all Deeds, Grants, Bargains, Sales, Writings, Evidences, Muniments, or otherwise howsoever, and, in all Courts for ever hereafter, plead and be impleaded by the Name of the Trustees of the College of New Jersey. AND that they the said Corporation, by the Name aforesaid, Shall be able, and in Law capable, for the use of the said College to have, get, acquire, purchase, receive, and possess Lands, Tenements, Hereditaments, Jurisdictions and Franchises for themselves, and their Successors, in Fee Simple or otherwise howsoever; AND to purchase receive or build any House or Houses, or any Other Buildings as they Shall think needfull or convenient for the Use of the Said College of New Jersey, and in such Place or places in New Jersey, as they the said Trustees shall agree upon. AND also to receive and dispose of any Goods, Chattles and other things of what Nature soever for the Use aforesaid, and receive any Rents, Profits, Annuities, Gifts, Legacies, Donations, and Bequests of any kind whatsoever for the Use aforesaid, so nevertheless the yearly clear Value of the Premises do not exceed the sum of two thousand Pounds Sterling [amount changed]. AND therewith or otherwise to support and pay (as the said Trustees and their Successors or the major Part of such of them as (according to the Provision herein afterwards) are regularly convened for that purpose shall agree and see Cause) the President, Tutors, and other Officers or Minister of the said College, their respective annual Salaries or Allowance and all such other necessary and contingent Charges as from

time to time Shall arise and accrue relating to the Said College. AND also to grant, bargain, Sell, let, set, or assign, Lands Tenements, or Hereditaments Goods or Chattles, contract or do all other things whatsoever, by the Name aforesaid and for the Use aforesaid, in as full and ample Manner to all Intents and Purposes, as any natural Person or other Body Politick or Corporate is able to do, by the Laws of our Realm of Great Britain or of our said Province of New Jersey. AND OF OUR FURTHER Grace, certain Knowledge, and meer Motion, to the Intent that our said Corporation and Body Politick may answer the end of their Erection and Constitution, and may have perpetual Succession and continue for ever. We do for us our Heirs and Successors hereby will, give, and grant unto the said Trustees of the College of New Jersey, and to their Successors for ever, that when Any thirteen [number changed, and so below wherever thirteen stands] of the said Trustees or of their Successors are convened and met together as aforesaid for the Service of the said College, the Governor and Commander in Chief of our said Province of New Jersey, and in his Absence the President of the said College, and in the absence of the said Governor and President, the eldest Trustee present at such Meeting, from time to time, Shall be president of the said Trustees at all their Meetings, and at any time or times such thirteen Trustees convened and met as aforesaid Shall be capable to act as fully and amply to all Intents and Purposes, as if all the Trustees of the said College were personally present. PROVIDED always that a Majority of the said thirteen Trustees be of the said Province of New Jersey, except, after regular Notice they fail of coming, in which Case those that are present are hereby impowered to act, the different place of their Abode notwithstanding, and all affairs and Actions whatsoever under the Care of the said Trustees shall be determined by the Majority or greater Number of those thirteen so convened and met together, the President whereof shall have no more than a single vote. AND WE DO for us our Heirs and Successors hereby will, give, and grant full Power and Authority to any six or more of the said Trustees to call Meetings of the said Trustees from time to time and to order Notice to the said Trustees of the Times and Places of Meeting for the Service aforesaid. AND ALSO WE DO hereby for us our Heirs and Successors, will, give, and grant to the said Trustees of the College of New Jersey, and to

their Successors for ever, that the Said Trustees, do elect nominate, and appoint such a qualified Person as they or a major Part of any thirteen of them, convened for that purpose as above directed, Shall think fit, to be the President of the said College, and to have the immediate Care of the Education and Government of such Students as shall be sent to, and admitted into the said College for Instruction and Education. AND ALSO that the said Trustees do elect nominate and appoint so many Tutors and Professors to assist the President of the said College, in the Education and Government of the Students belonging to it, as they the said Trustees or their Successors or the major part of any thirteen of them, which shall convene for that purpose as above directed, Shall from time to time and at any time hereafter think needful and serviceable to the Interests of the said College.

AND ALSO THAT THE SAID TRUSTEES AND THEIR SUCCESSORS, or the major Part of any thirteen of them, which shall convene for that purpose as above directed, Shall at any time displace and discharge from the Service of the said College, such President Tutors and Professors, and to elect others in their Room and Stead AND ALSO that the said Trustees or their Successors, or the major Part of any thirteen of them which Shall convene for that Purpose as above directed, do from time to time as occasion Shall require, elect, constitute and appoint a Treasurer, a Clerk, an Usher, and a Steward for the said College, and appoint to them and each of them their respective Business and Trusts, and displace and discharge, from the Service of said College, such Treasurer, Clerk, Usher, or Steward, and to elect others in their Room and Stead, which President, Tutors, Professors, Treasurer, Clerk, Usher, and Steward, so elected and appointed, WE DO for us our Heirs and Successors, by these Presents constitute and establish in their several Offices, and do give them and every of them full Power and Authority to exercise the same in the said College of New Jersey, according to the Direction and during the Pleasure of the said Trustees, as fully and freely as any other the like Officers in our Universities or any of our Colleges in our Realm of Great Britain lawfully may and ought to do. AND ALSO that the said Trustees and their Successors or the major Part of any thirteen of them, which shall convene for that Purpose as above directed, as often as one or more of the said Trustees Shall

happen to dye, or by removal or Otherwise Shall become unfit or uncapable according to their Judgment to serve the Interest of the said College, do, as soon as conveniently may be after the Death, Removal, or such Unfitness or Incapacity of such Trustee or Trustees to serve the Interest of the said College, elect and appoint such other Trustee or Trustees as shall supply the place of him or them so dying, or Otherwise becoming unfit or uncapable to serve the Interest of the said College; and every Trustee so elected and appointed, Shall by Vertue of these presents and of such Election and Appointment be vested with all the Power and Privileges which any of the other Trustees of the said College are hereby invested with, AND WE DO FURTHER of our especial Grace, certain Knowledge and meer Motion, will, give, and grant, and by these Presents do, for us our Heirs and Successors, will, give, and grant, unto the said Trustees of the College of New Jersey, that they and their Successors, or the major Part of any thirteen of them, which Shall convene for that Purpose, as above directed, may make, and they are hereby fully impowered from Time to Time, freely and lawfully to make and establish such Ordinances, Orders, and Laws, as may tend to the good and wholesome Government of the said College, and all the Students and the several officers and Ministers thereof, and to the public Benefit of the same, not repugnant to the Laws and Statutes of our Realm of Great Britain or of this our Province of New Jersey, and not excluding any Person of any religious Denomination, whatsoever from free and equal Liberty and Advantage of Education, or from any of the Liberties Priviliges or Immunities of the said College on Account of his or their being of a religious profession different from the said Trustees of the said College, and Such Ordinances, Orders, and Laws, which Shall be so as aforesaid made, WE DO by these Presents for us our Heirs and Successors ratify, allow of, and confirm as good and effectual to oblige and bind all the said Students, and the several Officers and Ministers of the said College, AND WE DO hereby authorize and impower the said Trustees of the College, and the President, Tutors and Professors by them elected and appointed to put such Ordinances and Laws in Execution to all Proper Intents and Purposes. AND WE DO FURTHER of our especial Grace, certain Knowledge, and meer Motion, will, give, and grant, unto the said Trustees of the College of New Jersey that for the Encourage-

ment of Learning and animating the Students of the said College to Diligence Industry and a laudable Progress in Literature, that they and their Successors, or the major Part of any thirteen of them convened for that Purpose as above directed, do, by the President of the said College for the time being or by any other deputed by them give and grant any such Degree and Degrees to any of the Students of the said College, or to any others by them thought worthy thereof as are usually granted in either of our Universities or any other College in our Realm of Great Britain, and that they do sign and seal Diplomas or Certificates of such Graduations to be kept by the Graduates as Perpetual Memorials or Testimonials thereof. AND FURTHER of our especial Grace, certain Knowedge, and meer Motion, WE DO by these Presents for us our Heirs and Successors give and grant unto the Said Trustees of the College of New Jersey and to their Successors, that they and their Successors Shall have a common Seal under which they may pass all Diplomas and Certificates of Degrees, and all other the Affairs and Business of and concerning the said Corporation, or of and concerning the said College of New Jersey, which shall be engraven in Such Form and with such Inscription as Shall be devised by the said Trustees of the said College, or the major Part of any thirteen of them, convened for the Service of the said College as above directed. AND WE DO FURTHER for us our Heirs and Successors give and grant unto the said Trustees of the College of New Jersey and their Successors, or the major Part of any thirteen of them, convened for the Service of the College as above directed, full Power and Authority from time to time to nominate and appoint all other inferior Officers and Ministers which they shall think to be convenient and necessary for the Use of the College, not herein particularly named, or mentioned, and which are accustomary in our Universities, or in any of our Colleges in our Realm of Great Britain, which Officers or Ministers we do hereby impower to execute their Offices or Trusts as fully and freely as any other the like officers or Ministers in any of our Universities, or any other College in our Realm of Great Britain lawfully may or ought to do.

AND LASTLY our express Will and Pleasure is, and we do by these Presents for us our Heirs and Successors, give and grant unto the said Trustees of the College of New Jersey, and to their Suc-

cessors forever, that these our Letters Patent or the Enrollment thereof shall be good and effectual in the Law to all Intents and Purposes, against us our Heirs and Successors, without any other License, Grant, or Confirmation, from us our Heirs and Successors hereafter by the said Trustees to be had or obtained; Notwithstanding the not reciting or Misrecital, or not naming or mis-naming of the aforesaid Offices, Franchises, Privileges, Immunities, or other the Premises or any of them, and notwithstanding a Writ of Ad quod Damnum hath not issued forth to enquire of the premises or any of them, before the ensealing hereof; Any Statute, Act, Ordinance or Provision, or any other Matter or thing to the contrary notwithstanding. TO have hold and enjoy all the singular the Priviliges, Advantages, Liberties, Immunities, and all other the Premises herein and hereby granted and given or which are meant mentioned or intended to be herein and hereby given and granted unto them the said Trustees of the said College of New Jersey and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent, and the Great Seal of our said Province of New Jersey to be hereunto affixed. WITNESS our trusty and well beloved JONATHAN BELCHER Esquire Governor and Commander in Chief of our said Province of New Jersey this fourteenth day of September in the twenty second Year of our Reign, and in the Year of our Lord one thousand seven hundred and forty eight.

I have perused and Considered the within Charter of Incorporation, and find nothing Contained therein Inconsistent with his Majesty's Interest or the Honor of the Crown.

J. WARRELL, *At Genll.*

September ye 13th. 1748.—This charter having been read in Council was consented to and approved of.

CHA. READ, *Cl. Con.*

Lett the Great Seal of the Province of New Jersey be Affixed to this Charter.

J. BELCHER.

To the Secretary of the Province of New Jersey.

The second charter had been sought by the original Trustees in order to increase their number, to give other religious communions a share in the administration, and to

make the lay Trustees equal in number to those who were clergymen. Numerous doubts, besides, had been expressed as to the validity of the first charter, which had been granted by the President of the Council, then acting governor, and which had never been recorded *verbatim* in the records of the Secretary of State. The interest taken by Governor Belcher in the affairs of the institution and the wise forethought of its founders, by the execution of the second and more comprehensive document, effectually removed all doubts as to the validity of their powers. After the Revolution this charter was confirmed and renewed by the Legislature of the State of New Jersey.

After the granting of the first charter measures were at once taken to open the College, and on February 2, 1747, a notice appeared in the *New York Gazette Revived in the Weekly Post Boy*, notifying "any Person or Persons who are qualified by preparatory Learning for Admission, that some time in May next at latest they may be there admitted to an Academic Education." On the 20th of April, the following notice was given through the same journal :

This is to inform the Publick, That the Trustees of the College of New-Jersey, have appointed the Reverend Mr. Jonathan Dickinson, President of the said College; which will be opened the fourth week in May next, at Elizabeth-Town: At which Time and Place, all Persons suitably qualified, may be admitted to an Academic Education.

Hatfield, in his *History of Elizabeth*, states that "the first term of the College of New Jersey was opened at Mr. Dickinson's house, on the south side of the old Rahway road, directly west of Race street." President Dickinson's term of administration was brief, commencing on the fourth week in May, 1747, and closing with his death, which occurred October 7, 1747. Upon his decease the Rev. Aaron Burr assumed the charge of the College, which was removed from Elizabethtown to Newark. To Burr belongs

the credit for the organization of the curriculum, the ceremonies of the College, and its discipline.

The first Commencement was held at Newark, November 9, 1748, and was celebrated with much ceremony. This occasion had been somewhat delayed owing to the desire of Governor Belcher to there present the Trustees with the second charter, which could not sooner be completed. The *New York Gazette Revived in the Weekly Post Boy* published an account of the proceedings of this Commencement in detail, together with the inaugural address of President Burr, with the following endorsement: "As the Acts of a publick Commencement are little known in these Parts, perhaps the following Relation from an Eye and Ear Witness, may be agreeable to many of our Readers." The President, in his address, emphasized the need of a broad and liberal education as the firmest foundation of the Commonwealth, and concluded with an eulogy upon the generosity of their patron, Governor Belcher. The graduating class numbered six.

A set of laws for the government of the College, probably prepared by Burr, were adopted by the Trustees at this time. One, relating to the admission of students, gives a fair idea of the entrance requirements of the period:

> 1. None may be expected to be admitted into College but such as being examined by the President and Tutors shall be found able to render Virgil and Tully's Orations into English; and to turn English into true and grammatical Latin; and to be so well acquainted with the Greek as to render any part of the four Evangelists in that language into Latin or English; and to give the grammatical connection of the words.

The Trustees also announced "That the annual Commencement for the future be on the last Wednesday of September, and that the next Commencement be held at New Brunswick." A majority of the Board appear to have favored New Brunswick as a permanent location for the

College, and in this way hoped to interest the inhabitants, to the end that pecuniary aid might be forthcoming for the erection of suitable buildings. The need of funds being urgent, application was made to the Provincial Assembly for authority to raise by a lottery a sum not exceeding eight thousand dollars, but the request was denied and the lottery was transferred to Philadelphia. Several years later, in 1761–2, the Assembly granted this privilege, as did also the General Court of Connecticut (1753–4).

In casting about for a desirable site for the location of the Institution, the situation of Princeton at once commended itself. Not only was it midway between the cities of New York and Philadelphia and its one street a part of the great highway between them, but it occupied a central position upon rising ground, insuring healthful surroundings, on the line dividing East and West Jersey. Here, among the first foothills of the Appalachians, a settlement had been made so early as 1696, called Prince-town, probably because it was near neighbor to the older village of Kingstown. New Brunswick, because of its greater size and somewhat similar though not so favorable location, claimed the first consideration; but the Trustees, well aware of the pecuniary value of a college to any town in which it should be placed, were desirous of securing the full advantage accruing from this fact, and voted, September 26, 1750:

That a proposal Be made to the Towns of Brunswick and Prince-Town to try what Sum of Money They can Raise for Building of the College by the next meeting that the trustees may Be Better able to Judge in Which of these places to fix the place of the College.

At the next meeting of the Board, held in Trenton, May 15, 1751, the following resolution was adopted:

Voted that New-Brunswick be ye Place for the Building of the College, provided the Inhabitants of sd. Place agree with the Trustees upon the following Terms, Viz. that they secure to the College

a Thousand Pounds proc. Money, ten acres of land contiguous to the College, and two hundred acres of Wood Land, the furthest Part of it not to be more than three Miles distant from the Town; or such a Quantity of Wood Land as the Trustees of the College shall judge Equivalent to two hundred Acres of Wood Land offered to be given by some gentleman in Prince Town.

Mr. Jonathan Sergeant, the Treasurer, was ordered to view the land at Princeton and New Brunswick and report to the Board. The citizens of the latter place do not appear to have been eager to accept the terms imposed by the Board, and, failing to comply by the time allowed, it was voted, September 27, 1752:

That the College be fixed at Princeton upon Condition that the Inhabitants of sd. Place secure to the Trustees that two Hundred Acres of Woodland, and that ten Acres of clear'd Land which Mr. Sergeant view'd; and also one thousand Pounds proc. Money.

This action finally settled the vexed question of location, and, the citizens of the town having complied with the terms proposed by the Board, steps were at once taken for the erection of the first college building. The plans drawn by Dr. Shippen and Robert Smith were accepted by the Trustees. These, according to the Minutes of July 22, 1754, specified "That the College be built of Brick if good Brick can be made at Princeton & if Sand can be got reasonably cheap. That it be three story high & without any Cellar;" but at a subsequent meeting it was decided that stone be used for the College edifice. The land for this building was given by Nathaniel Fitz Randolph, who also donated twenty pounds currency. Ground was broken on the 29th of July, 1754, under the direction of Joseph Morrow, and soon afterward the corner-stone was laid, in the presence of Thomas Leonard, John Stockton, John Horner, William Worth (stone mason), Nathaniel Fitz Randolph, and many others. It was the purpose of the Trustees to name the new building after the patron and benefactor of

the College, Governor Belcher, but with rare modesty he declined the honor, requesting the Board to call the edifice "Nassau Hall," as expressing "the Honour we retain, in this remote Part of the Globe to the immortal Memory of the Glorious King William the 3d., who was a Branch of the illustrious House of NASSAU." This request was complied with in the following terms:

Whereas his Excellency Govr. Belcher has signified to us, his declining to have the Edifice we have lately erected at Princeton for the Use and Service of New-Jersey College to be called after his Name, and has desired and for Good Reasons that it should be call'd after the Name of the illustrious House of NASSAU; It is therefore voted, and is hereby ordered that the sd. Edifice be in all Time to come called and be known by the Name of NASSAU HALL.

The College was completed and the students removed from Newark to Princeton in the fall of 1756. The expenses incurred consequent upon the erection of so considerable a building, then the largest structure of its kind in the colonies, had prompted the Board, in 1753, to send the Rev. Gilbert Tennent and the Rev. Samuel Davies to Great Britain to solicit funds in behalf of the Institution. This undertaking was successful, and the money acquired sufficient to defray in part the cost of the building.

The death of President Burr occurred September 24, 1757, and three days later the Trustees at their stated meeting elected the Rev. Jonathan Edwards, of Stockbridge, Massachusetts, to fill the vacancy. The administration of President Burr was one of marked progress in the development of the College, and to him belongs the credit, in a great measure, of the successful establishment of the Institution and the organization of its curriculum and discipline.

President Edwards, after some delay, arrived at Princeton on the 16th of February, 1758, and assumed the duties

of his office. One week later he was inoculated for small-pox and died on the 22d of March. On the ninth of May, 1759, the Rev. Samuel Davies was elected to the Presidency and on the 26th of July entered upon the duties of his office. Mr. Davies was probably graduated from the Log College and was considered, "next to Whitefield, the most eloquent preacher of his age." He died February 4, 1761.

During his administration there were no material changes in the course of instruction; more attention, however, was given to the cultivation of English composition and elocution. President Davies gave much of his time to the building up of a suitable library for the College. A catalogue of the books in the library was prepared, with a preface by Davies, setting forth "The Design of the Publication," and asserting that "A large and well-sorted Collection of Books on the Various Branches of Literature is the most ornamental and useful Furniture of a College; and the most proper and valuable Fund with which it can be endowed." Text-books were also imported from London for the use of the students, and placed in the hands of the Steward for sale.

The Rev. Samuel Finley had been proposed for the Presidency at the meeting at which Davies was elected, and upon the death of the latter he was unanimously chosen as his successor. His administration lasted until the 17th of July, 1766, the date of his death. During this period the course of instruction remained the same as in former years, and the College maintained a steady growth.

On the 19th of November, 1766, the Trustees elected to the Presidency, John Witherspoon, D.D., LL.D., of Paisley, Scotland. Dr. Witherspoon at first declined; a year later, however, he accepted a reëlection and became sixth President of the College of New Jersey.

Witherspoon arrived in America during the summer of 1768 and was inaugurated on the 17th of August. The

shadow of the Revolution was already lengthening over the Colonies, and in this important crisis Witherspoon brought to the aid of his adopted land, whose cause he openly and boldly espoused, "political talents of the very highest order, and personal traits which made his immigration to the country an inestimable blessing to the struggling Colonists. He was bold and influential as an agitator; active with his pen and his voice; one of the foremost of the party of action; not only ready for a declaration of independence, but earnest in his advocacy of it (De Witt)." New Jersey was the destined battle ground of the Revolution and it needed the shrewd wit and strong hand of the great Scotchman to carry the College safely through the stormy days that followed. Among the students of this period (1770), were many who afterward were leading figures in the great struggle and in the constitutional problem which at the close of the war offered itself to every thoughtful mind. James Madison, Aaron Burr, Gunning Bedford, William Bradford, Philip Freneau, Hugh Henry Brackenridge, Henry Lee, Morgan Lewis, and Henry Brockholst Livingston were some of the pupils over whom Witherspoon was called to preside.

The spirit of resistance which the passage of the Stamp Act had provoked was nowhere more manifest than at Princeton. In 1765 the Senior class voted to appear at the Commencement dressed in American manufactures. This example was also followed by the undergraduates. In January, 1774, to show their patriotism, the students burned the Steward's winter store of tea, the effigy of Governor Hutchinson of Massachusetts sharing a like fate having a tea-canister tied about his neck.

For nearly eight years the varying fortunes of the Revolution told heavily on the College. The course of instruction was interrupted by the presence of both armies, Nassau Hall was wrecked, the library scattered and destroyed, and the philosophical apparatus, including the famous orrery

made by Joseph Rittenhouse of Philadelphia, ruined. During this period but one Commencement was omitted, that of 1777. The members of the graduating class, however, seven in number, received their degrees a few months later and are accounted graduates for that year.

During the battle of Princeton, January 3, 1777, a part of the Fortieth Regiment (British) remained in their barracks within the walls of Nassau Hall. Captain Hamilton's battery was ordered to dislodge them and several shots were sent into the building. One of these, tradition hath it, entering the chapel passed through the head of the portrait of King George the Second hanging upon the wall. The British quickly surrendered and 194 gave themselves up prisoners of war.

College orders were regularly resumed after the enemy had abandoned their occupation of the State, although, according to President Witherspoon's report, given through the public papers in 1779, the number of students did not at any time exceed ten. In the summer of 1783 a mutinous body of soldiers surrounding the State House in Philadelphia where Congress was sitting, caused that body to retire to Princeton and for a time Nassau Hall became the capitol of the Nation. The Commencement of 1783 is rendered notable in the annals of the College, from the attendance of General Washington, the National Congress, and the Marquis de la Luzerne, Minister from France.

The impoverished condition of the country consequent upon the war of the Revolution, laid a heavy burden upon the shoulders of the President and Trustees. Great credit is due to the perseverance and untiring energy displayed by Witherspoon throughout his administration in meeting and overcoming these difficulties. President Witherspoon died November 15, 1794.

Samuel Stanhope Smith, D.D., LL.D., a graduate of the College in the class of 1769, who succeeded Dr. Wither-

spoon, was elected to the Presidency May 6, 1795. During his term of office the course of instruction was broadened and the curriculum enlarged. Among the most important changes of this kind was the establishment of a professorship in chemistry. This was the first provision for regular instruction in this branch of science made by an American college. A grant of six hundred pounds per annum for three years was secured from the Legislature of the State, to reimburse the College for the damage sustained to its buildings, library, and philosophical apparatus during the Revolution. This appropriation, however, was not equal by a thousand dollars to the expense of repairing the philosophical apparatus.

On the 6th of March, 1802, Nassau Hall was destroyed, save for the outer walls, by fire together with almost the entire library and part of the philosophical apparatus. Steps were at once taken to raise funds wherewith to repair the loss, and an elaborate address "To the Inhabitants of the United States" was prepared by the Trustees and sent far and wide. In this appeal they were so far successful that by the 4th of April, 1804, more than forty-four thousand dollars had been collected. The rebuilding of Nassau Hall was completed during the summer of 1804.

Dr. Smith resigned the Presidency August 14, 1812, and was succeeded by Ashbel Green, D.D., LL.D., a graduate of the College (1783). Dr. Green's administration closed September 25, 1822, at which time he tendered his resignation to the Trustees. During this period of ten years the institution maintained a steady growth, both in the number of students and in the income from its invested funds.

On the 26th of September, 1822, the Trustees elected to the Presidency the Rev. John Holt Rice of Richmond, Virginia. Dr. Rice, being in ill-health, declined and the duties of the office for a time devolved upon the Vice-President, Philip Lindsley.

James Carnahan, D.D., LL.D., of the Class of 1800, was elected upon the 12th of May, 1823, and was inaugurated President August 5th of that year. President Carnahan's term of office was one of marked increase in the growth and development of the College. During his administration of thirty-one years, sixteen hundred and thirty-four students were graduated from the institution; the teaching corps was increased from two professors and two tutors, in 1823, to six professors, two assistant professors, and four tutors in 1854, and not less than seventy-five thousand dollars expended in the erection of new buildings, the purchase of apparatus and books, and the improvement of the College grounds.

A department of law was established in 1846, under the direction of the Hon. Joseph C. Hornblower, Chief Justice of the Supreme Court of New Jersey; James S. Green, and Richard S. Field, Attorneys. The degree of Bachelor of Laws was given for two years' residence study. There being no funds available for the support of this department the lectures were abandoned in 1852. During this period the degree of Bachelor of Laws was conferred upon seven.

President Carnahan resigned in 1853, but upon the request of the Board retained the office until the Commencement of 1854.

John Maclean, D.D., LL.D., was elected to the Presidency December 20, 1853, and inaugurated Wednesday, June 28, 1854. Dr. Maclean resigned December 11, 1867, retaining the office until the Commencement of 1868. During this period the number of students increased from 247 in 1854, to 281 in 1868. The Civil War deprived the institution of a large proportion of its students and is largely responsible for the small increase. Four new professorships were established, having a total endowment of $195,000, and the teaching corps increased to twenty. The movement to establish free scholarships in the College, under-

taken during the last years of President Carnahan's administration, was successful in obtaining $60,000. The interior of Nassau Hall was destroyed by fire for the second time on the night of the 10th of March, 1855. The damage to the building, the walls alone standing, amounted to above $50,000, upon which there was an insurance of $12,000. The work of rebuilding Nassau Hall was completed during the spring of 1860.

James McCosh, D.D., LL.D., Litt.D., of Queen's College, Belfast, was elected President of the College on the 29th of April, 1868. Dr. McCosh resigned the office in 1888, after an administration of twenty years. Under President McCosh the number of students increased from 281 in 1868, to 603 in 1887. Gifts amounting to upwards of three millions of dollars were contributed during this period, of which one million was expended in the erection of fourteen buildings. Among the more important changes in the curriculum were the introduction of the system of elective studies (1870); and the founding of the John C. Green School of Science (1873), offering courses leading to the degree of Bachelor of Science, Civil Engineer, and Master of Science; and the establishment of the Graduate Department (1877). The Faculty was enlarged from ten professors and seven tutors in 1868, to thirty-one professors, four assistant professors, and five tutors and instructors—a total of forty—in 1888.

Francis Landey Patton, D.D., LL.D., twelfth President of the College of New Jersey, was elected February 9, 1888, and inaugurated June 20, 1888. President Patton resigned the office June 9, 1902. During his administration of fourteen years the student enrolment increased from 603 in 1888, to 1354 in 1902. The Faculty numbered forty in 1888; in 1902, one hundred. Seventeen new buildings were erected during President Patton's incumbency.

In October, 1896, the one hundred and fiftieth anniversary of the signing of the First Charter of the College of New Jersey was celebrated; on the anniversary day, October 22, 1896, the title of Princeton University was assumed.

In 1900 a plan for Alumni Representation in the Board of Trustees was adopted. By this plan five Trustees were added to the Board, who hold office for five years (except those elected at the first election on June 11th, 1901) and are known as "Alumni Trustees"; one Trustee is elected yearly. No one is eligible for election as an Alumni Trustee excepting a graduate of Princeton University of not less than ten years' standing; all graduates of Princeton University of three years' standing who duly enroll are entitled to vote for Alumni Trustees. Nominations are made each year between the first day of January and the first day of April; the election takes place in Princeton on Tuesday of Commencement week, and votes may be cast either in person or by mail.

The title of the Corporation as now constituted is The Trustees of Princeton University.

Woodrow Wilson, Ph.D., Litt.D., LL.D., was elected to the Presidency in June, 1902, and inaugurated on the 25th of October of the same year.

PART III

TERMS OF ADMISSION

TERMS OF ADMISSION TO PRINCETON UNIVERSITY

IN EFFECT JUNE, 1905,* AND THEREAFTER

ENTRANCE FEE

Each candidate who proposes to take the Princeton Entrance Examination in June must send to the Registrar before June 1st,

1.) A statement containing his name and address, the place at which he proposes to take the examination, and the subjects in which he wishes to be examined.

2.) A certificate of moral character.

3.) A fee of five dollars, either by money order or cheque payable to *Princeton University.*

In return he will receive a receipt from the Registrar which he must show to the examiner when he registers at the examination.

Each candidate who takes his examination in September must pay this fee unless he has already paid it in June, but those who have paid this fee in June shall be admitted without further payment to the September examinations of the same year. Candidates taking examinations in different years shall pay the fee each year.

Each candidate admitted to any class otherwise than by the regular examinations of the University (*e.g.*, on

* Candidates entering in 1905 may enter under the requirements stated in the Princeton University Catalogue for 1903-1904, pp. 70-79, 154-171, except that ach candidate shall pay the entrance fee.

certificate of the College Entrance Examination Board) shall pay an admission fee of five dollars.

ENTRANCE EXAMINATIONS

All candidates for examination in Princeton must report at the Faculty Room in the University Offices half an hour before the first examination begins. Examinations for admission will be written, with supplementary oral examinations if needed. The first examination will begin in Princeton, on Thursday, June 15th, 1905, at 9 A. M., and will continue through Saturday forenoon. The second will begin on Monday, September 18th, 1905, at 2 P. M. Applicants who have any conditions or other deficiencies from the June examination are required to remove them at the September entrance examinations. *Attendance is required at the beginning of the examinations.*

Simultaneously with the June entrance examinations in Princeton, examinations will also be held in the cities of New York, Philadelphia, Pittsburg, Albany, Buffalo, Chicago, Cincinnati, Cleveland, Columbus, Denver, Harrisburg, Indianapolis, Kansas City, Louisville, Newark, Omaha, Portland, Ore., St. Louis, St. Paul, San Antonio, Scranton, Syracuse, Washington, Wilkesbarre, and at such preparatory schools and other cities as the number of candidates or the distance from other places of examination may justify. The places in which the examinations are to be held can be learned by application to the Registrar.

Examinations at other times and places than those specified are very inconvenient and often impracticable, and applicants for examination on other than the regular days must obtain previous permission by writing to the Registrar and are required to pay $10 into the treasury.

All candidates for admission to any class, or as special students, must bring with them satisfactory testimonials of good moral character, preferably from their last instructors,

and if the candidate has been a member of another college, university, or similar institution, he must produce a certificate from its President or Faculty that he is free from censure in that institution.

Each applicant for admission should be provided with a statement, signed by his teacher, as to his fitness to be examined in each of the subjects which he offers. The statement is merely for the information of the examiners, and is in no sense an admission certificate.

No candidate is admitted into the undergraduate department without examination and a vote of the Faculty.

PRELIMINARY EXAMINATIONS

At the examinations in June and September, candidates intending to enter the Freshman class one year later are admitted to examination in a portion of the subjects required for entrance. Certificates as to preparation in the subjects in which the candidate wishes to be examined should be presented.

FRESHMAN ENTRANCE REQUIREMENTS

The following entrance requirements are defined for the most part in close accordance with recommendations of the National Educational Association and of the College Entrance Examination Board. It is recommended that candidates be prepared for examination on the requirements as specified, but equivalents will be accepted. The University will in all cases be the judge of the equivalence of subjects offered as substitutes for the specified requirements.

There are three regular forms of entrance to the courses leading to degrees in Princeton University, *viz.* (1) Entrance for those who offer Greek and are candidates for the degree of A. B. (2) Entrance for those who do not offer Greek and are candidates for the degree of Litt. B. or B. S.

(3) Entrance for those who are candidates for the degree of C. E.

The Freshman entrance requirements for candidates for the various degrees given in course in Princeton University are as follows: (The detailed statement of each subject is given on a later page.)

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREE OF A. B.

HISTORY. One and only one of

1. American History and Civil Government,
2. English History,
3. Ancient History.

GREEK.

1. Greek Grammar,
2. Greek Composition A,
3. Xenophon,
4. Homer A.

LATIN.

1. Latin Grammar,
2. Latin Composition A,
3. Cæsar (four books),
4. Cicero A (six orations),
5. Virgil A (six books),
6. Sallust (Catiline).

ENGLISH.

1. English A (reading),
2. English B (careful study).

MODERN LANGUAGES. One and only one of

1. French A,
1. German A.

(For maximum requirements leading to advanced standing in French, see French B, and in German, see German B. Any candidate for admission to the course leading to the A. B. degree who passes either French B or German B at entrance may elect an advanced course in the subject passed by him, or may begin the other modern language which he did not offer for entrance.)

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry.

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREES OF LITT. B. AND B. S.

N. B.—Hereafter the degree of Bachelor of Science (B. S.) will be open to those who concentrate in one of the Mathematical or Scientific Departments during the Junior and Senior years, and the degree of Bachelor of Letters (Litt. B.) has been constituted to be open to those who concentrate in one of the Departments in philosophical, political, literary, or other humanistic studies. The entrance requirements for these two degrees are identical.

HISTORY. One and only one of

1. American History and Civil Government,
2. English History,
3. Ancient History.

LATIN.

1. Latin Grammar,
2. Latin Composition A,
3. Cæsar (four books),
4. Cicero A (six orations),
5. Virgil A (six books),
6. Sallust (Catiline).

ENGLISH.

1. English A (reading),
2. English B (careful study).

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry,
5. Solid Geometry,
6. Plane Trigonometry.

MODERN LANGUAGES AND SCIENCE. One and only one of the following five combinations:

1. French A and 1. German A,
2. French B and Physics A or B,
2. French B and Chemistry,
2. German B and Physics A or B,
2. German B and Chemistry.

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREE OF C. E.

ENGLISH.

1. English A (reading),
2. English B (careful study).

FOREIGN LANGUAGES. One and only one of the three languages:

Latin (1. Latin Grammar, 2. Latin Composition A, 3. Cæsar, 4. Cicero).
French (1. French A),
German (1. German A).

MATHEMATICS.

1. Algebra to Quadratics, A I.
2. Algebra, Quadratics through the Binomial Theorem, A II.
4. Plane Geometry,
5. Solid Geometry,
6. Plane Trigonometry.

SCIENCE. One and only one of the two sciences:

Physics A or B,
Chemistry.

[It is recommended that all candidates should receive instruction in freehand drawing before entrance.]

FRESHMAN ENTRANCE SUBJECTS

HISTORY

(One and only one of 1, 2, 3 to be offered for A. B., Litt. B., and B. S. entrance.)

It is recommended that each of the following courses be pursued in the spirit and by the methods suggested in the Report of the Committee of Seven of the American Historical Association on the Study of History in Schools. (The Macmillan Co., 1899.)

1. *American History and Civil Government.* The course of study recommended for American History and Civil Government should occupy four exercises a week for one year. Military details may be omitted. The origins of the American people and the development of their political life should be clearly understood in their main outlines.

2. *English History.* For the period preceding the Norman invasion a brief outline will suffice. The course of English History after that event down to 1850 should be carefully studied with proper reference to the development of political institutions.

3. *Ancient History.* For the present the requirement will be restricted to Greek History to the death of Alexander the Great, and Roman History to the accession of Commodus. As soon as it appears practicable, notice will be given and the requirement will be extended to comprise "Ancient History with special reference to Greek and Roman History, and including also a short introductory study of the more ancient nations and the chief events of the Middle Ages down to the death of Charles the Great (814)." It is recommended that instruction in the schools should be extended to comprise Ancient History in the sense above defined.

GREEK

(1, 2, 3, 4 to be offered for A. B. entrance.)

1. *Greek Grammar.* The topics for the examination in Greek Grammar are similar to those detailed under Latin Grammar.

2. *Greek Composition A.* Consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of Xenophon's Anabasis.

3. *Xenophon.* The first four books of the Anabasis.

4. *Homer A.* The first three books of the Iliad (omitting II, 494–end).

Greek 5 and 6 are approved substitutes for 4. Candidates desiring papers in these subjects or desiring to offer any other substitute for 4, must notify the Registrar of the University on or before May 1st, preceding the examinations.

5. *Homer B.* The sixth, seventh, and eighth books of the Iliad.

6. *Herodotus.* Selections from the seventh book, sections 1–60 and 172–239.

Papers will be regularly set in Greek 11 and 12. These subjects are not required, nor may they be substituted for any of the specified subjects, but excellence in them will be taken into account in the general estimate of the candidate's Greek papers.

11. *Greek Composition B.* Consisting of continuous prose, based on Xenophon, and other Attic prose of similar difficulty.

12. *Sight Translation.* Based on prose of no greater difficulty than Xenophon's Anabasis.

LATIN

(1, 2, 3, 4, 5, 6 to be offered for A. B., Litt. B., and B. S.; 1, 2, 3, 4 to be offered for C. E. unless a modern language be offered.)

1. *Latin Grammar.* The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.

2. *Latin Composition A.* Translation into Latin of detached sentences and very easy continuous prose, based upon Cæsar and Cicero.

3. *Cæsar.* Any four books of the Gallic War, preferably the first four.

4. *Cicero A.* Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

5. *Virgil A.* The first six books of the Æneid.

6. *Sallust.* The Catiline.

Papers will be regularly set in Latin 7, which is an

approved substitute for 6. Candidates desiring to offer 8, 9, 10, or any other substitute for any part of the specified subjects 3, 4, 5, or 6, must notify the Registrar of the University on or before May 1st, preceding the examinations.

7. *Ovid.* Twenty-five hundred lines from the Metamorphoses.

8. *Virgil B.* The last six books of the Æneid.

9. *Virgil C.* The Eclogues and Georgics.

10. *Cicero B.* De Amicitia and De Senectute.

Papers will be regularly set in Latin 11 and 12. These subjects are not required, nor may they be substituted for any of the specified subjects, but excellence in them will be taken into account in the general estimate of the candidate's Latin papers.

11. *Latin Composition B.* Consisting of continuous prose of moderate difficulty, based on Cicero.

12. *Sight Translation.* Based exclusively on prose of no greater difficulty than the easier portions of Cicero's orations.

ENGLISH

(Both 1 and 2 to be offered by all candidates.)

The examination will be based upon the books prescribed by the uniform entrance requirements in English. Questions as to the subject matter, structure, and style of these books will be asked. Candidates must be prepared in all of the books required for the year of examination. For 1905 the books prescribed are:

1. *English A.* For reading, *Shakespeare's* The Merchant of Venice and Julius Cæsar, *Addison's* Sir Roger de Coverley Papers in The Spectator, *Goldsmith's* The Vicar of Wakefield, *Coleridge's* The Ancient Mariner, *Scott's* Ivanhoe, *Carlyle's* Essay on Burns, *Tennyson's* The Princess, *Lowell's* The Vision of Sir Launfal, *George Eliot's* Silas Marner.

2. *English B.* For careful study, *Shakespeare's* Macbeth, *Milton's* Lycidas, Comus, L'Allegro, and Il Penseroso, *Burke's* Speech on Conciliation with America, *Macaulay's* Essays on Milton and Addison.

For 1906, 1907 and 1908 the books prescribed are:

1. *English A.* For reading, *Shakespeare's* The Merchant of Venice and Macbeth, *Addison's* Sir Roger de Coverley Papers in The Spectator, *Coleridge's* The Ancient Mariner, *Scott's* Ivanhoe and The Lady of the Lake, *Tennyson's* Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur, *Lowell's* The Vision of Sir Launfal, *George Eliot's* Silas Marner, *Irving's* Life of Goldsmith.

2. *English B.* For careful study, *Shakespeare's* Julius Cæsar, *Milton's* Lycidas, Comus, L'Allegro, and Il Penseroso, *Burke's* Speech on Conciliation with America, *Macaulay's* Essays on Samuel Johnson and Addison.

GERMAN

1. *German A.* Candidates should be able to translate at sight a passage of simple German; to put into German short English sentences taken from the language of everyday life or a passage of simple connected prose; and to answer questions upon the rudiments of grammar.

Satisfactory preparation for this examination is furnished in the two-year course in elementary German recommended by the Modern Language Association. The course comprises drill in pronunciation, memorizing easy sentences, the rudiments of grammar with easy exercises illustrating grammatical forms and principles, and the reading of 75 to 100 pages of graduated texts from a reader, followed by 150 to 200 pages of easy stories and plays. It is recommended, however, that not more than one play be read.

2. *German B.* Candidates should be able to translate at sight German prose of ordinary difficulty, whether recent

or classical; to put into German a connected passage of ordinary English; and to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation.

Satisfactory preparation for this examination is furnished by the intermediate German course of three years recommended by the Modern Language Association. In addition to the preparation suggested for German A this preparation comprises the reading of about 400 pages of moderately difficult prose and poetry, with continued practice in grammar and composition.

FRENCH

1. *French A.* Candidates should be able to translate at sight easy French prose, to put into French simple English sentences, or a passage of easy connected prose, and to answer questions on the rudiments of the grammar.

Satisfactory preparation for this examination is furnished in the two-year course in elementary French recommended by the Modern Language Association. The course comprises drill in pronunciation, the rudiments of grammar, memorizing easy sentences, with easy exercises illustrating grammatical forms and principles, translation into French, writing French from dictation, and the reading of 100 to 175 pages of graduated texts, followed by 250 to 400 pages of easy modern prose in the form of stories, plays, or historical biographical sketches.

2. *French B.* Candidates should be able to translate at sight ordinary French prose or simple poetry, to put into French a connected passage of English prose and to answer questions involving a more thorough knowledge of syntax than is expected in French A.

Satisfactory preparation for this examination is furnished by the intermediate French course of three years

recommended by the Modern Language Association. In addition to the course recommended for French A this preparation comprises the reading of from 400 to 600 pages of moderately difficult French, a portion of it to be in the dramatic form, exercise in giving French paraphrases, and continued practice in grammar and composition.

MATHEMATICS

(1, 2, 4 to be offered by all candidates. In addition, 5 and 6 to be offered for Litt. B., B. S., and C. E.)

In all numerical work special emphasis is laid upon accuracy and facility in reckoning.

In each of the following subjects simple original exercises will be set.

Problems having to do with lengths, areas, or volumes will be stated, usually, in terms of the metric system of weights and measures.

1. *Algebra to Quadratics, A I.* The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

2. *Elementary Algebra, Quadratics through the Binomial Theorem, A II.* Quadratic equations, equations in one or more unknown quantities that can be solved by the methods of quadratic equations, ratio and proportion, the progressions, the elementary treatment of permutations and combinations, the binomial theorem for positive integral exponents, and the use of four, five and six place logarithms.

4. *Plane Geometry.* Demonstrations of theorems, and constructions and demonstrations of problems; the solution of simple numerical exercises, including lengths of lines and

areas of the triangle, parallelogram, trapezoid, reguar polygons, and circle; simple original exercises in construction and demonstration.

5. *Solid Geometry.* Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons (including prisms, parallelepipeds, pyramids and the regular solids), of cylinders, cones and spheres, of spherical triangles, and the mensuration of these solids and their surfaces.

6. *Plane Trigonometry.* Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for 0°, 30°, 45°, 60°, 90°, 120°, 135°, etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. A knowledge of the meaning of the circular measure of angles and of the inverse trigonometric functions is also desirable.

PHYSICS

The requirement in Elementary Physics may be met in either of the two following ways:

1. *Physics A.* By passing an examination on the subject as it is presented in such text-books as *Gage's* Principles of Physics. In this examination much emphasis will be laid upon the student's ability to solve numerical problems.

2. *Physics B.* By presenting a laboratory note-book containing full records of all the experimental work performed by the student during his course of preparation. This note-book must bear the certificate of the instructor that the records were made by the student himself, and that they are a faithful description of the laboratory work actu-

ally done by him. The note-book should be paged and properly indexed. The presentation of this note-book will excuse the student from the examination on the general subject, but he will still be examined on the solution of numerical problems as prescribed in A. The metric system will be used exclusively in the examination.

In order to meet requirement A at least one school year, with four or five recitations per week, should be devoted to the subject. This course should be accompanied by class-room demonstrations conducted by the teacher. Requirement B may be met in the same length of time by dividing the time about equally between recitations based on a suitable text-book and laboratory exercises performed by the student himself. While it is desirable that this laboratory work have a large range and accordingly be mainly of a qualitative character, still due stress should be laid upon the performance of exact quantitative work.

CHEMISTRY

1. *Chemistry.* The candidate's preparation should include: (1) The study of a standard text-book, (2) instruction by lecture-table demonstrations, and (3) individual laboratory work, embracing forty exercises selected from some such work as *Smith* and *Keller's* Experiments for Students in General Chemistry.

The requirement embraces the sources, preparation, physical and chemical properties of the following elements and their most important compounds *Hydrogen*, *oxygen*, *chlorine*, *nitrogen*, *carbon*, *bromine*, *iodine*, *fluorine*, *sulphur*, phosphorus, arsenic, *silicon*, *potassium*, *sodium*, *calcium*, magnesium, aluminium, *zinc*, *iron*, manganese, *copper*, mercury, silver, *lead*, and tin. Detailed study should be given to the italicized elements and their compounds. Further, candidates should be well posted in matters relating to natural waters, the atmosphere, the laws of chemical combinations by weight and by volume, oxidation and reduction, combustion, nascent state, catalysis, bases, acids, and salts,

the nature and structure of flames, precipitation, distillation, crystallization, the elementary gas laws and their applications, the atomic and molecular theories, equation writing, stoichiometrical calculations and valency. They should also have some elementary knowledge of chemical energy, mass action, equilibrium, and the ionic theory.

At the examination each candidate must hand in, along with his paper, a note-book containing a detailed record of the practical work done by him in the laboratory, and this note-book must bear the endorsement of his instructor.

The requirements are intended to be essentially equivalent to those specified in the Plan of Organization of the College Entrance Examination Board of the Middle States and Maryland.

Examination Certificates Issued by the College Entrance Examination Board

will be accepted in place of the regular entrance examinations, in so far as the certificates presented correspond to the requirements of this University. Candidates offering such certificates are required to submit therewith the testimonials as to character and general fitness prescribed above for other candidates. The latter testimonial shall state definitely the amount of work done in each subject offered for examination.

ADMISSION TO SPECIAL COURSES

In exceptional cases students are admitted to the privileges of the University, not as members of any one of the four regular classes or candidates for a degree, and are allowed to take special undergraduate courses, selected under the direction of the Faculty, in such a manner as to secure full and profitable employment of their time. Such special students undergo an entrance examination sufficient

to ascertain their preparation for the courses proposed, and are subject to the same regulations and discipline and to the same examinations in the studies pursued as other undergraduates. Those desiring to enter as special students are expected to take the regular entrance examinations upon such subjects as they offer, and in case the applicant passes in a sufficient number of subjects he will ordinarily be accorded a special course of study. These special courses, however, are not offered to those who have failed in the regular course.

When special students are finally leaving the University certificates of proficiency, signed by the President and Registrar, may be granted them on report by the Committee on Special Students that they have completed the courses on their schedule.

ADMISSION TO ADVANCED STANDING

Candidates for admission to an advanced class will be examined in the studies previously pursued by the class they purpose entering, and may also be required to pass the regular examinations for admission to the Freshman class. While a certificate of satisfactory work done in any of these studies in another institution will not necessarily excuse from examination, it may in some degree modify the examination, and should therefore always be presented. Examinations for advanced standing are held ordinarily in Princeton only.

Candidates for admission to the Sophomore class, who have not completed the studies of the Freshman class at another approved institution, must first pass an examination on the studies required for admission to the Freshman class.

Candidates for admission to the Sophomore, Junior, or Senior class, when coming from another institution, are examined only in the studies of the year preceding that which

they wish to enter, provided they present evidence that they have passed satisfactory examinations on the previous studies of the curriculum and entrance requirements, or their equivalents.

A candidate coming from an undergraduate class in an approved institution may be allowed, at the discretion of the Faculty, to enter the next lower class in this University without examination, provided he present satisfactory certificates from his former institution.

At the discretion of the Faculty the Bachelor diploma of an approved institution may be taken in place of the examination for entrance to the Senior year.

No person is admitted to the University as a candidate for a Bachelor's degree or for the degree of Civil Engineer after the beginning of the first term of the Senior year.

REGULATION CONCERNING SECRET SOCIETIES

Immediately after the beginning of the academic year the students entering the Undergraduate Department meet according to announcement for matriculation, and subscription to the following pledge is required by the Board of Trustees:

> We, the undersigned, do individually for ourselves promise, without any mental reservation, that we will have no connection whatever with any secret society, nor be present at the meetings of any secret society in this or any other institution so long as we are members of Princeton University; it being understood that this promise has no reference to the American Whig and Cliosophic Societies. We also declare that we regard ourselves bound to keep this promise and on no account whatever to violate it.

PART IV

SYSTEM OF UNDERGRADUATE STUDY

SYSTEM OF UNDERGRADUATE STUDY

The courses of study offered to candidates for a Bachelor's degree extend through four academic years, and lead to the degrees of Bachelor of Arts (A.B.), Bachelor of Letters (Litt.B.), and Bachelor of Science (B.S.). The candidate for a Bachelor's degree enters either the Academic Department or the John C. Green School of Science. The curriculum of the Academic Department leads to the degree of Bachelor of Arts; that of the School of Science to the other degrees. In the School of Science the degree of Bachelor of Science (B.S.) will be conferred upon those who have concentrated their studies in one of the mathematical or scientific departments, according to the plan given on a later page, during the Junior and Senior years, and the degree of Bachelor of Letters (Litt.B.) upon those who have concentrated their studies in one of the departments in philosophical, political, literary, or other humanistic studies.

The schedule of every Sophomore, Junior, and Senior consists of five courses of three hours a week, subject only to such exemptions as are established for candidates for Special Honors.

The various courses of study offered are open only to students of that year to which the courses belong, except in cases where students are allowed or required to take a course belonging to a preceding year.

THE FRESHMAN YEAR

The course of the Freshman year is composed of sixteen class exercises a week, of which two each week are given to

the study of English, four to Latin, and four to mathematics. In addition to the English, Latin, and mathematics, each candidate for the A.B. degree has four exercises devoted to Greek and two exercises devoted to the modern language which he offered at entrance; and each candidate for the Litt.B. or B.S. degree has three exercises a week in the modern language which he has offered at entrance and in addition three exercises either in the other modern language (French or German) or in physics, according as he has offered physics for entrance or not.

THE SOPHOMORE YEAR

The Sophomore courses, required and elective, arranged so as to include elementary courses prerequisite to the subsequent studies of the various departments, are as follows:

SOPHOMORE A.B.—REQUIRED

Physics
Logic (1st term), Psychology (2d term)
Greek (1st term), Latin (2d term)

ELECTIVE (*Two courses to be taken*)

Latin (1st term), Greek (2d term)
Chemistry
Mathematics
History (1st term), English (2d term)
French (Advanced or Beginners')
German (Advanced or Beginners')

SOPHOMORE B.S. AND LITT.B.—REQUIRED

Physics
Logic (1st term), Psychology (2d term)

ELECTIVE (*Three courses, one of which must be Latin or Mathematics to be taken*)

Latin
Mathematics
Chemistry
Graphics, if Mathematics is taken
History (1st term), English (2d term)
French (Advanced or Beginners')
German (Advanced or Beginners')

The student's choice of a department for Junior and Senior years is largely conditioned by his selection of the electives in the Sophomore year. The Sophomore prerequisite and advised elective courses for the various departments are as follows:

PREREQUISITE Sophomore elective courses in small capitals. *Advised* Sophomore elective courses in italics.)

	DEPARTMENT	PREREQUISITE AND ADVISED ELECTIVE COURSES	FOR DEGREE OF
I.	*Philosophy*	*A foreign language*	A.B.& Litt.B.
II.	*History, Politics, and Economics*	HISTORY *A foreign language*	A.B.& Litt.B.
III.	*Art and Archæology*	CLASSICS, through year *A modern language*	A.B.
		LATIN, through year *A modern language*	Litt.B.
IV.	*Classics*	CLASSICS, through year	A.B.
V.	*English*	ENGLISH *A foreign language*	A.B.
		ENGLISH LATIN, through year *A modern language*	Litt.B.
VIa.	*Modern Languages* *Germanic Section*	GERMAN, through year	A.B.& Litt.B.
VIb.	*Modern Languages* *Romanic Section*	FRENCH, through year *Classics*	A.B.
		FRENCH, through year LATIN, through year	Litt.B.
VII.	*Mathematics*	MATHEMATICS, through year	A.B. & B.S.
VIII.	*Physics*	MATHEMATICS, through year *Chemistry*	A.B. & B.S.
IX.	*Chemistry*	CHEMISTRY, through year *Mathematics* (must be taken here or in Junior year)	A.B. & B.S.
X.	*Geology*	CHEMISTRY, through year *A modern language*	A.B. & B.S.
XI.	*Biology*	CHEMISTRY, through year *A modern language*	A.B. & B.S.

THE JUNIOR YEAR

Each Junior shall choose a department in which to concentrate his studies, and shall take all the Junior year courses of that department, as indicated in the list of Junior courses, as well as the courses which are there stated to be cognate to that department. Three of his five courses shall, in all cases, be in the division in which the department chosen lies, and one course shall be outside of the division in which this department lies, the remaining course being left to his free election.

List of Courses of Junior Year

[First term courses have odd numbers; second term courses have even numbers.]

A. Division of Philosophy

I. *Department of Philosophy*
31, 32. History of Philosophy
33. Advanced Psychology. 34. Advanced Logic
(*Advised elective:* 33, 34. Politics)

II. *Department of History, Politics, and Economics*
31, 32. History
33, 34. Politics
35, 36. Economics
(*Advised elective:* 31, 32. History of Philosophy)

B. Division of Art and Archæology

III. *Department of Art and Archæology*
31, 32. Art and Archæology
(*Requisite cognate courses:* A course in Classics through the year; A modern language through the year)
(*Advised elective:* 31, 32. History of Philosophy)

C. Division of Language and Literature

IV. *Department of Classics*
31, 32. Greek
33, 34. Latin
(*Advised elective:* 31, 32. History of Philosophy)

V. *Department of English*
31, 32. English Literature
33, 34. English Philology

VIa. *Department of Modern Languages. Germanic Section*
31, 32. German
(*Requisite cognate course:* 33, 34. English Philology)

VIb. *Department of Modern Languages. Romanic Section*
31, 32. French
35, 36. Italian, or 37, 38. Spanish
(*Advised elective:* 33, 34. Latin)

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. *Department of Mathematics*
31, 32. Mathematics
33. Mathematics, and 34. Analytical Mechanics

VIII. *Department of Physics*
31, 32. Physics (in 1905–6 this will be Experimental Physics)
34. Analytical Mechanics
(*Requisite cognate course:* 31. Mathematics)
(*Advised elective:* 33. Mathematics, and 32. Mathematics)

IX. *Department of Chemistry*
31, 32. Chemistry
33, 34. Chemistry
(*Requisite cognate course:* 31. 32. Physics)
(The free elective must be the Sophomore Mathematics, unless that course has been taken during the Sophomore year)

X. *Department of Geology*
31. Geology, and 32. Physical Geology
33. Mineralogy, and 34. Physical Geography
(*Requisite cognate course:* 31, 32. Biology)

XI. *Department of Biology*
31, 32. Biology
33, 34. Biology
(*Requisite cognate course:* Practical Chemistry through year)

The following Junior courses also fall under Division D, but are not included in any of the departments of that division:

31. Astronomy
31. Graphics
32. Geodesy, in first term during 1904–1905
32. Graphical Statics, in first term during 1904–1905

THE SENIOR YEAR

Each Senior shall continue his studies in a department in which he has satisfied the requirements of the Junior year, and shall take three courses in that department as indicated in the list of Senior courses. Or in case three courses are not thus indicated, three of his courses shall, in all cases, be in the division in which his department lies.

List of Courses of Senior Year

[First term courses have odd numbers; second term courses have even numbers.]

A. Division of Philosophy

I. *Department of Philosophy*

41, 42. Philosophy
43, 44. Philosophy
45, 46. Ethics

II. *Department of History, Politics, and Economics*

41, 42. History
43, 44. History
45, 46. Politics
47, 48. Politics
49, 50. Economics

B. Division of Art and Archæology

III. *Department of Art and Archæology*

41, 42. Art and Archæology
43, 44. Art and Archæology
(*Requisite cognate course:* Classics or Italian through year)

C. Division of Language and Literature

IV. *Department of Classics*

41, 42. Greek
43, 44. Greek
45, 46. Latin
47, 48. Latin

V. *Department of English*

41, 42. English
43, 44. English

VIa. *Department of Modern Languages. Germanic Section*

41, 42. German
43, 44. German

VIb. *Department of Modern Languages. Romanic Section*
43, 44. Romanic Philology
{ Two of the three languages:
{ 41, 42. French, 45, 46. Italian, 47, 48. Spanish }

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. *Department of Mathematics*
41, 42. Mathematics
43, 44. Mathematics

VIII. *Department of Physics*
41, 42. Physics
43, 44. Physics

IX. *Department of Chemistry*
41, 42. Chemistry
43, 44. Chemistry
45, 46. Chemistry

X. *Department of Geology*
41, 42. Historical Geology
43. Stratigraphical Geology, and 44. Physical Geography
45, 46. Paleontology, or 47. Mineralogy

XI. *Department of Biology*
41, 42. Biology
43, 44. Biology

The following Senior courses are also offered, which are not included in any of the eleven departments above:

48. History of Natural Philosophy (*falls in Divisions A and D*)
49, 50. Roman Law (*falls in Division A*)
41, 42. Sanskrit (*falls in Division C*)
41, 42. Semitics (*falls in Division C*)
41, 42. Practical Astronomy (*falls in Division D*)
41, 42. Theory of Prime Motors (*falls in Division D*)

THE PRO-SEMINARIES

A pro-seminary will be established in some departments for Seniors who are candidates for Final Special Honors. Each pro-seminary will be in charge of one instructor, who

shall conduct a session of the pro-seminary at least one hour each week during the term or year.

The sessions of each pro-seminary will be devoted to the presentation and discussion of work prepared by the individual members of the pro-seminary.

TABLES SHOWING THE DEPARTMENTS IN DETAIL

I. Department of Philosophy

Open to candidates for the degrees of A.B. and Litt.B.

Advised Sophomore Elective

A foreign language

Junior Courses

31, 32. History of Philosophy (H)
33. Advanced Psychology (H), and 34. Advanced Logic (H)
A course from Division A (33, 34. Politics *advised*)
A course not in Division A
An elective

Senior Courses

41, 42. Philosophy
43, 44. Philosophy
45, 46. Ethics
An elective
An elective

II. Department of History, Politics, and Economics

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Course

History

Advised Sophomore Elective

A foreign language

Junior Courses

31, 32. History (H)
33, 34. Politics (H)
35, 36. Economics (H)
A course not in Division A
An elective (31, 32. History of Philosophy *advised*)

Senior Courses

{ Three courses in History, Politics, and Economics
An elective
An elective

III. Department of Art and Archæology

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

Elective Classics through the year for A.B.
Latin through the year for Litt.B.

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Art and Archæology (H)
A course in Classics (H) through the year
A modern language through the year
A course not in Division B (History of Philosophy *advised*)
An elective

Senior Courses

41, 42. Art and Archæology
43, 44. Art and Archæology
Classics or Italian through the year
An elective
An elective

IV. Department of Classics

Open to candidates for the degree of A.B.

Prerequisite Sophomore Course

Elective Classics through the year

Junior Courses

31, 32. Greek (H)
33, 34. Latin (H)
A course from Division C
A course not in Division C (History of Philosophy *advised*)
An elective

Senior Courses

{ Three courses in Latin and Greek
An elective
An elective

V. Department of English

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

English for A.B.
Latin through the year and English } for Litt.B.

Advised Sophomore Electives

A foreign language for A.B.
A modern language for Litt.B.

Junior Courses

31, 32. English Literature (H)
33, 34. English Philology (H)
A course from Division C
A course not in Division C
An elective

Senior Courses

41, 42. English
43, 44. English
A course from Division C
An elective
An elective

VIa. Department of Modern Languages. Germanic Section

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Course

German through the year

Junior Courses

31, 32. German (H)
33, 34. English Philology (H)
A course from Division C
A course not in Division C
An elective

Senior Courses

41, 42. German
43, 44. German
A course from Division C
An elective
An elective

VIb. Department of Modern Languages. Romanic Section

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

French through the year for A.B. and Litt.B.
Latin through the year for Litt.B.

Advised Sophomore Elective

Elective Classics for A.B.

Junior Courses

31, 32. French (H)
35, 36. Italian (H), or 37, 38. Spanish (H)
A course from Division C (Latin *advised*)
A course not in Division C
An elective

Senior Courses

43, 44. Romanic Philology
{ Two of the three languages:
{ 41, 42. French, 45, 46. Italian, 47, 48. Spanish
An elective
An elective

VII. Department of Mathematics

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

Mathematics 21, 22.

Junior Courses

31, 32. Mathematics (H)
33. Mathematics (H), and 34. Analytical Mechanics (H)
A course from Division D
A course not in Division D
An elective

Senior Courses

41, 42. Mathematics
43, 44 Mathematics
A course from Division D
An elective
An elective

VIII. Department of Physics

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

Mathematics 21, 22.

Advised Sophomore Elective

Chemistry

Junior Courses

31, 32. Physics (H)
31. Mathematics, and 34. Analytical Mechanics (H)
A course from Division D (33, 32. Mathematics *advised*)
A course not in Division D
An elective

Senior Courses

41, 42. Physics
43, 44. Physics
A course from Division D
An elective
An elective

IX. Department of Chemistry

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Courses

Chemistry through the year
Mathematics 21, 22 (may be taken in Junior year)

Junior Courses

31, 32. Chemistry (H)
33, 34. Chemistry (H)
31, 32. Physics
A course not in Division D
An elective (must be 21, 22. Mathematics, unless that course has been taken in Sophomore year)

Senior Courses

41, 42. Chemistry
43, 44. Chemistry
45, 46. Chemistry
An elective
An elective

X. Department of Geology

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

Chemistry through the year

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Geology (H)
33. Mineralogy, and 34. Physical Geography (H)
31, 32. Biology
A course not in Division D
An elective

Senior Courses

41, 42. Historical Geology
43. Stratigraphical Geology, and 44. Physical Geography
45, 46. Paleontology, or 47. Mineralogy
An elective
An elective

XI. Department of Biology

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

Chemistry through the year

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Biology (H)
33, 34. Biology (H)
Practical Chemistry through the year
A course not in Division D
An elective

Senior Courses

41, 42. Biology
43, 44. Biology
A course from Division D
An elective
An elective

In the above statements of the departments the courses in the Junior year which are marked with (H) are the courses central to the department in which a Junior must maintain a standing not below the second group in order to be a candidate for Final Special Honors.

PART V

DEPARTMENTS OF THE UNIVERSITY

ACADEMIC DEPARTMENT

FACULTY

WOODROW WILSON, PH.D., LITT.D., LL.D., *President, McCormick Professor of Jurisprudence and Politics.*

FRANCIS LANDEY PATTON, D.D., LL.D., *Ex-President, Stuart Professor of Ethics and the Philosophy of Religion.*

HENRY BURCHARD FINE, PH.D., *Dean of the Faculty, Dod Professor of Mathematics.*

ANDREW FLEMING WEST, PH.D., LL.D., HON. D.LITT. (Oxon.), *Dean of the Graduate School, Giger Professor of Latin.*

HENRY CLAY CAMERON, PH.D., D.D., *Professor of Greek Language and Literature, Emeritus.*

WILLIAM ALFRED PACKARD, PH.D., D.D., *Kennedy Professor of Latin Language and Literature and the Science of Language.*

S. STANHOPE ORRIS, PH.D., L.H.D., *Professor of Greek Language and Literature, Emeritus.*

THEODORE WHITEFIELD HUNT, PH.D., L.H.D., *Professor of English Language and Literature.*

GEORGE LANSING RAYMOND, L.H.D., *Professor of Æsthetics.*

SAMUEL ROSS WINANS, PH.D., *Professor of Greek and Instructor in Sanskrit.*

WILLIAM COWPER PRIME, LL.D., *Professor of the History of Art.*

ALLAN MARQUAND, PH.D., L.H.D., *Professor of Archæology and the History of Art.*

ALEXANDER THOMAS ORMOND, PH.D., LL.D., *McCosh Professor of Philosophy.*

ARTHUR LINCOLN FROTHINGHAM, JR., PH.D., *Professor of Ancient History and Archæology.*

JOHN HOWELL WESTCOTT, PH.D., *Musgrave Professor of Latin and Tutor in Roman Law.*

GEORGE MCLEAN HARPER, PH.D., *Holmes Professor of Belles Lettres and English Language and Literature.*

WINTHROP MORE DANIELS, A.M., *Professor of Political Economy.*
JOHN GRIER HIBBEN, PH.D., *Stuart Professor of Logic.*
ARNOLD GUYOT CAMERON, PH.D., *Woodhull Professor of French.*
PAUL VAN DYKE, D.D., *Professor of History.*
HENRY VAN DYKE, D.D.. LL.D., *Murray Professor of English Literature.*
EDWIN SEELYE LEWIS, PH.D., *Professor of Romance Languages.*
GEORGE STEVENSON PATTON, A.M., *Professor of Moral Philosophy.*
HOWARD CROSBY WARREN, A.M., *Professor of Experimental Psychology.*
THOMAS MARC PARROTT, PH.D., *Professor of English.*
EDMUND YARD ROBBINS, A.M., *Professor of Greek.*
JESSE BENEDICT CARTER, PH.D., *Professor of Latin.*
HARRY AUGUSTUS GARFIELD, A.B., *Professor of Politics.*
WILLIAMSON UPDIKE VREELAND, D. ÈS L., *Professor of Romance Languages.*
FRANK THILLY, PH.D., *Stuart Professor of Psychology.*
GRANT SHOWERMAN, PH.D., *Professor of Latin.*
JOHN HAUGHTON CONEY, A.M., *Assistant Professor of History.*
JOHN PRESTON HOSKINS, PH.D., *Assistant Professor of German.*
WALTER AUGUSTUS WYCKOFF, A.M., *Assistant Professor of Political Economy.*
HARRY FRANKLIN COVINGTON, A.M., *Assistant Professor of English.*
STOCKTON AXSON, A.M., *Assistant Professor of English.*
WILLIAM KELLY PRENTICE, PH.D., *Assistant Professor of Greek.*
ROBERT MCNUTT MCELROY, PH.D., *Clerk of the Faculty, Assistant Professor of American History.*
MAX FRIEDRICH BLAU, PH.D., *Assistant Professor of German.*

INSTRUCTORS

GEORGE MADISON PRIEST, A.M., *Instructor in German.*
BAYARD TUCKERMAN, A.B., *Lecturer on English Literature.*
EDWARD GRAHAME ELLIOTT, PH.D., *Instructor in Jurisprudence and Politics.*
JACOB NEWTON BEAM, PH.D., *Instructor in German.*
DAVID MAGIE, JR., PH.D., *Instructor in Latin.*
HARDIN CRAIG, PH.D., *Instructor in English.*
HERBERT DOUGLAS AUSTIN, A.M., *Instructor in Latin and Italian*
ENNO LITTMANN, PH.D., *Instructor in Semitic Philology.*
HOWARD CROSBY BUTLER, A.M., *Lecturer on Architecture.*
WILLIAM KOREN, A.M., *Instructor in French.*

AUGUSTUS WHITE LONG, A.M., *Instructor in English.*
FRANK LINLEY CRITCHLOW, PH.D., *Instructor in French.*
HOWELL NORTH WHITE, A.M., *Instructor in Latin.*
EDWIN MOORE RANKIN, PH.D., *Instructor in Latin.*
FRED LE ROY HUTSON, A.B., *Instructor in Greek.*
JOHN PORTER HALL, A.B., *Instructor in Greek.*
HORACE MEYER KALLEN, A.B., *Instructor in English.*
JOHN EDWARD WALLACE WALLIN, PH.D., *Demonstrator in Experimental Psychology.*
WILLIAM HARRY CLEMONS, A.B., *Instructor in English.*
ROBERT PATTON ANDERSON, A.M., *Instructor in Latin.*
AYMAR EMBURY, II, M.S., *Instructor in Architecture.*
PHILIP HOWARD FOGEL, PH.D , *Instructor in Logic and Psychology.*
DONALD WILLIAM RICHARDSON, A.M., *Instructor in Latin.*

COURSES OF INSTRUCTION

A. DIVISION OF PHILOSOPHY

I. DEPARTMENT OF PHILOSOPHY

PROFESSOR ORMOND, *Head of the Department;* EX-PRESIDENT PATTON, PROFESSORS HIBBEN, G. S. PATTON, WARREN, AND THILLY; DR. WALLIN, AND DR. FOGEL

21. Logic. *Hibben:* Logic. Sophomore required course, first term, 3 hours per week. Professor Hibben.
22. Psychology. Sophomore required course, second term, 3 hours per week. Professor Thilly.
31. History of Philosophy. This course includes (1) Greek and Roman philosophy to close of pagan schools, (2) Mediæval philosophy to fall of scholasticism and beginning of the modern era. *Zeller:* Outlines; *Erdmann, Windelband.* Junior course, first term, 3 hours per week. Prerequisite to History of Philosophy of second term, and Epistemology and Metaphysics of Senior year. Professor Ormond.
32. History of Philosophy. This course includes (1) Modern philosophy from Descartes to Kant, (2) Post-Kantian philosophy. *Falkenberg:* History of Modern Philosophy. Junior course, second term, 3 hours per week. Prerequisite course: History of Philosophy of first term. Prerequisite to Epistemology and Metaphysics. Professor Ormond.
33. Advanced Psychology. Junior course, first term, 3 hours per week. Professor Thilly.

34. Advanced Logic. Theory of logic and theory of probability. *Bosanquet:* Essentials of Logic. Reference books: *Lotze*, *Sigwart*, *Mill*. Junior course, second term, 3 hours per week. Professor Hibben.

41. Outlines of Philosophy. This course includes, (1) Epistemology or doctrine of knowledge, (2) Metaphysics or theory of reality. It is given in one term the present year, but after that will extend throughout the year. *Ormond:* Foundations of Knowledge; *McCosh:* First and Fundamental Truths. Senior course, first term (in 1905–1906 this course will run through both terms), 3 hours per week. Prerequisite course: History of Philosophy. Professor Ormond.

42. History of Modern Philosophy. This course is identical with the course in modern philosophy given to the Juniors. It is a transition course for Seniors, who under the old schedule have not had this course in modern philosophy. *Falkenberg:* History of Modern Philosophy. Senior course (1904–1905), second term, 3 hours per week. Prerequisite courses: History of Ancient and Mediæval Philosophy. Professor Ormond.

43. Experimental Psychology. Scope and methods of experimental investigation of mental processes. Psycho-physical methods; analysis of sensation, with study of the common senses; contrast, sensory fatigue, habit, etc.; the special senses; space perception and visual illusions; memory, association and thought; feeling and its measure; reaction and general psychology of movement. *Sanford:* Course in Experimental Psychology. Reference books: *Wundt*, *Ladd*, *Külpe*, *Titchener*, *James*, *Baldwin*, *Scripture*. Senior course, first term, 3 hours per week. Prerequisite to the proseminary in Experimental Psychology. Professor Warren.

44. Philosophy of the Eighteenth Century. Development

of philosophical thought from Locke to Kant, covering the Aufklärung in England, France, Germany. Senior course, second term, 3 hours per week. Prerequisite course: History of Philosophy. Professor Hibben.

45. Types of Ethical Theory. Lectures on the history of ethics and types of ethical theory with critical study of representative authors. Senior course, first term, 3 hours per week. Professor George S. Patton.

46. Fundamental Ethical Concepts. Lectures and conferences based on critical reading of selected authors. Senior course, second term, 3 hours per week. Ex-President Patton and Professor George S. Patton.

THE PRO-SEMINARY IN PHILOSOPHY. In charge of Professor Ormond. Reading of masterpieces in modern philosophy with theses. During 1904–1905 *Berkeley's* Principles of Knowledge and *Kant's* Critique of Pure Reason are read. Professor Ormond and Dr. Fogel.

Experimental Psychology. Practical demonstrations in the laboratory of typical experimental investigations, with drill in the methods of calculating and treating results. *Sanford:* Course in Experimental Psychology; *Titchener:* Experimental Psychology. Reference books: *Wundt*, *Külpe*, *Jastrow*, *Stratton*, *Witmer*, *Scripture*. Pro-seminary open only to those who are qualified for honors, both terms. Prerequisite course: Experimental Psychology, Calculus (advised). Prerequisite to the graduate work in the psychological laboratory. Professor Warren and Dr. Wallin.

101, 1. Negative Theories of Knowledge. Graduate course, first term, 3 hours per week. (Given 1904–1905.) Lectures and readings. Professor Ormond.

101, 11. Kant, Lotze, and Contemporaneous Philosophy. Graduate course, first term, 3 hours per week. (Given 1905–1906.) Lectures, reading, and conferences. Professor Ormond.

102, 1. Encyclopedia of Philosophy. Graduate course, second term, 3 hours per week. (Given 1904–1905.) Lectures and readings. Professor Ormond.

102, 11. Philosophical Aspects of Evolution and Heredity. Graduate course, second term, 3 hours per week. (Given 1905–1906.) Professor Ormond.

103, 104. Experimental Psychology. Laboratory course, consisting largely in research work, with weekly conference for original reports; open to all qualified graduate students. Graduate course, both terms, 3 hours per week. Professor Warren.

105, 106. Seminary in General Philosophy. Topic for the year: Post-Kantian Idealism. Topic for 1905–1906: Hobbes and Spinoza. Conducted by reading, theses, and discussions. Graduate course, both terms. Professor Ormond.

107, 108. Psychological Seminary. Topic to be determined in consultation with class; open to graduate students who satisfy the professor of their competence; limited to twelve men studying for advanced degrees. Not given for less than five men. Graduate course, both terms. Professor Warren or Professor Thilly.

109. Theory of Mental Measurements. Graduate course, first term, 3 hours per week. Professor Warren.

111, 112. Reading in German Philosophy. Graduate course, both terms, 3 hours per week. *Hegel's* Logik. Professor Hibben.

113, 114. Contemporary English Ethics. Seminary course for graduate students, both terms, 3 hours per week. Professor G. S. Patton.

115. The Philosophy of the Mind. The problem of con-

sciousness in its metaphysical and epistemological bearings. Graduate course, first term, 3 hours per week. (Given 1905–1906.) Professor Thilly.

II. DEPARTMENT OF HISTORY, POLITICS, AND ECONOMICS

PROFESSOR DANIELS, *Head of the Department;* THE PRESIDENT, PROFESSORS PAUL VAN DYKE, GARFIELD, CONEY, WYCKOFF, AND MCELROY; AND DR. ELLIOTT

21. General History. A general sketch of the chief events and movements of European history from the Barbarian Invasion to the Franco-Prussian War. Recitations, informal lectures, readings, and tests. *Robinson:* History of Western Europe. Sophomore elective, first term, 3 hours per week. Prerequisite to the History courses in Junior and Senior year. Professors Paul van Dyke, Coney, or McElroy.

31. Mediæval History. The establishment of the kingdom of the Franks, the extension of the Christian church and the conflict between papacy and empire. Lectures and required reading. Junior course, first term, 3 hours per week. Prerequisite course: General History of Sophomore year. Professor Coney.

32. Mediæval History. The growth of the French monarchy from the close of the Carolingian period to the end of the fifteenth century. Lectures and required reading. Junior course, second term, 3 hours per week. Prerequisite course: General History of Sophomore year. Professor Coney.

33. Elements of Jurisprudence. Outlines of jurisprudence. An exposition of jurisprudence as an organic whole, exhibiting the nature of its subject-matter, its relationship to cognate branches of study, the inter-relationship of its several parts to each other, and their proper

function and aim. Lectures and collateral reading. *T. E. Holland:* Elements of Jurisprudence; *Sir W. Markby:* Elements of Law; *Sir H. S. Maine:* Ancient Law, and *E. Jenks:* Law and Politics in the Middle Ages. Junior course, first term, 3 hours per week. The President.

34. Constitutional Government. The genesis, nature, and operation of constitutional government, with especial reference to the political institutions of England and the United States. *W. Wilson:* The State; *E. Boutmy:* Studies in Constitutional Law, and English Constitution; *A. V. Dicey:* The Law of the Constitution, and *W. Bagehot:* The English Constitution. Junior course, second term, 3 hours per week. The President.

35, 36. Elements of Economics. This course will comprise the essential elements of the abstract theory of economics and some of the more essential applications and exemplifications of the theory, such as money, banking, international trade, and monopoly problems. There will be regularly two lectures a week, and one oral recitation, the latter being given in divisions of about forty students each. *Fetter:* Principles of Economics. Reference books: *Dunbar:* Banking; and *Jenks:* Trust Problem. Junior course, both terms, 3 hours per week. Prerequisite course: Sophomore History. Prerequisite to Public Finance and General Social Theory. Professor Daniels and Professor Wyckoff.

41, 42. History. The Three English Revolutions. An account of the establishment and fall of the Commonwealth. The Glorious Revolution of 1688, and the American Revolution; their resemblances and contrasts. Lectures with collateral reading and tests. Senior course, both terms, 3 hours per week. Prerequisite course: Sophomore Elective History. Professor Paul van Dyke.

43. American History to the Fall of the Federalist Party. An account of the discovery of the continent, the growth of colonial institutions, the development of concerted action among the colonies, and the establishment of the federal government. Lectures dealing with selected topics; text-book covering the entire period; and extensive collateral reading. Senior course, first term, 3 hours per week. Prerequisite course: Sophomore Elective History. Professor McElroy.

44. American History since the Fall of the Federalist Party. An account of the development and expansion of the United States. Lectures dealing with selected topics; text-book covering the entire period; and extensive collateral reading. Senior course, second term, 3 hours per week. Prerequisite course: Sophomore Elective History. Professor McElroy.

45. Politics. Government by Party. An examination of present political conditions and methods, an inquiry into their causes, and discussions of the problems arising therefrom. Lectures, collateral reading, and discussions. Reference books: *Ostrogorski:* Democracy *Bryce:* American Commonwealth; *Lowell:* Governments and Parties. Senior course, first term, 3 hours per week. Prerequisite course: History. Professor Garfield.

46. Politics. Government of Dependencies. An examination of the theory of relations between dominant and dependent countries, and of the administrative methods employed in the government of colonies and kindred political communities, with special reference to the American problems. Lectures, collateral reading, and discussions. *Lewis:* Government of Dependencies; *Reinsch:* Colonial Government; *Colquhoun:* Mastery of the Pacific. Senior course, second term,

3 hours per week. Prerequisite course: History. Professor Garfield.

47. Politics. International Law. A discussion of the general principles with their application to some current and disputed questions. Reference book: *Hall:* A Treatise on International Law. Senior course, first term, 3 hours per week. Dr. Elliott.

48. Politics. Modern Political Theories. A history of modern political theories with special attention to American political theories and their sources. *Hobbes:* Leviathan; *Locke:* On Civil Government; *Montesquieu:* The Spirit of the Laws; *Rousseau:* The Social Contract; The Federalist. Only selected portions of these books will be required. Reference book: *Merriam:* American Political Theories. Senior course, second term, 3 hours per week. Dr. Elliott.

49. Economics. Public Finance. This course will cover the theory and history of public finance. The historical part of the course will deal mainly with the financial history of the United States. Lectures with occasional recitations. *Daniels:* Public Finance; *Dewey:* Financial History of the United States. Reference books: *Bastable:* Finance; *H. C. Adams:* Finance. Senior course, first term, 3 hours per week. Prerequisite courses: Sophomore History and Junior Elements of Economics. Professor Daniels.

50. Economics. Social Theory. The course will cover an account of the origin and development of private property and the various schemes, theoretical and practical, which have for their object social reconstruction by changes in the institution of private property. *Hobson:* Evolution of Modern Capitalism. Reference book: *Webb:* Industrial Democracy. Senior course, second term, 3 hours per week. Prerequisite courses: Sophomore History and Junior Economics. Professor Wyckoff.

THE PRO-SEMINARY. In the department of history, politics, and economics there will be a pro-seminary both terms; the pro-seminary to be divided into sections, one for history, one for politics, and one for economics. This pro-seminary system will go into effect with the beginning of the academic year 1905–1906.

108, I. The Private Law Orations of Cicero (Classics 108, I). Graduate course, second term, 3 hours per week, alternating with 108, II. Professor Westcott.

108, II. Sources of Early Roman Law (Classics 108, II). Graduate course, second term, 3 hours per week, alternating with 108, I. Professor Westcott.

109. Genesis of Industrial Order. An ethnological study of industry, including the earliest forms of the division of labor, the domestication of animals and plants, the rise of slavery, the use of money, etc. The class will meet in the Seminary room and the writing and criticism of theses will constitute the basis of the course. Graduate course, first term, 3 hours per week. Professor Wyckoff.

110. Advanced Economic Theory. An exposition of economic theory, historical and dogmatic. Seminary course for competent graduates, designed to supplement and continue course 109. Hours to be arranged with the instructor. Graduate course, second term, 3 hours per week. Professor Daniels.

B. DIVISION OF ART AND ARCHÆOLOGY

III. DEPARTMENT OF ART AND ARCHÆOLOGY

PROFESSORS MARQUAND AND FROTHINGHAM; MR. BUTLER AND MR. EMBURY

31. History of Ancient Art. A general outline of the history of ancient Egyptian, Chaldean, Assyrian, Persian, Greek, and Roman architecture, sculpture, and painting. *Reber:* History of Ancient Art. Reference books: *Maspero:* Egyptian Archæology; *Babelon:* Manual of Oriental Antiquities; *Collignon:* Greek Archæology. Junior course, first term, 3 hours per week. Prerequisite to Elements of Architecture and History of Greek Sculpture. Professor Marquand.

32. History of Mediæval Art. A general outline of the history of early Christian, Byzantine, Romanesque, and Gothic architecture, sculpture, and painting. *Reber:* History of Mediæval Art. Reference books: *Lowrie:* Monuments of the Early Church; *Moore:* Gothic Architecture. Junior course, second term, 3 hours per week. Prerequisite to Elements of Architecture and graduate courses. Professor Marquand.

41. History of Greek Sculpture. A study of the technique, forms, composition, and history of Greek sculpture, *Gardner:* Handbook of Greek Sculpture. Senior course, first term, 3 hours per week. Prerequisite course: History of Ancient Art. Professor Marquand.

42. Renaissance Painting. A study of the techn que, subjects, compositions, and historical relations of the Italian, German, French, Flemish, and Dutch painting of the Renaissance. Senior course, second term, 3 hours per week. Prerequisite course: History of Mediæval Art. Professor Marquand.

43, 44. Elements of Architecture. A practical course consisting of one hour of lecture and two hours of historical drawing. Senior course, both terms, 3 hours per week. Mr. Embury.

101. Greek Architecture. This course will consist of a critical study of *Vitruvious'* De Architectura. Graduate course, first term, 3 hours per week. Professor Marquand.

102. Pausanias. This course will consist of a critical study of *Frazer's* Commentary on Pausanias' Description of Greece. Graduate course, second term, 3 hours per week. Professor Marquand.

103. Early Christian Antiquities, from the beginning of Christianity to its triumph under Constantine, with especial study of the Roman Catacombs and their art, the first church buildings and the origin of liturgy. Graduate course, first term, 3 hours per week. Professor Frothingham. (Not given 1904–1905.)

104. Christian Antiquities, from the fourth century to Charlemagne; the development of church buildings and liturgy, as well as of fresco and mosaic painting and other forms of art, especially with reference to art themes used for the instruction of the masses by the Church. Graduate course, second term, 3 hours per week. Professor Frothingham. (Not given 1904–1905.)

105, 106. Christian Architecture. A practical study of ecclesiastical architecture, from the fourth century to the twelfth, including the subjects of the construction, design, and details of the early Christian, Byzantine, and Romanesque periods. Requires elementary knowledge of the history of Christian art and Mediæval history, and ability to read French. Graduate course, both terms, 3 hours per week. Mr. Butler. (Not given 1904–1905.)

C. DIVISION OF LANGUAGE AND LITERATURE

IV. DEPARTMENT OF CLASSICS

DEAN WEST, *Head of the Department;* PROFESSORS PACKARD, WINANS, WESTCOTT, ROBBINS, CARTER, SHOWERMAN, AND PRENTICE; DR. MAGIE, MR. WHITE, DR. RANKIN, MR. HUTSON, MR. HALL, MR. ANDERSON, AND MR. RICHARDSON

11. Lysias. The Greek text will be used as a basis for a study of Greek idiom and syntax, and for the acquisition of the vocabulary necessary to pursue with profit the subsequent courses in this department. Practical exercises in writing Greek will also be given. *Morgan:* Lysias; *Allinson:* Greek Prose Composition. Freshman course, required of candidates for the degree of A.B., first term, 2 hours per week. Professor Prentice, Mr. Hutson, and Mr. Hall.

12. Herodotus. Selections and sight reading. Freshman course, required of candidates for the degree of A.B., second term, 2 hours per week. Professor Robbins and Mr. Hall.

13. Xenophon: Hellenica. In this course the strictest attention will be paid both to the meaning of individual words and phrases and to the historical content of the chapters read. Some account will be given of this epoch of Greek history, and as much time as possible will be devoted to reading simple prose Greek at sight. *Blake:* Hellenica; *Bury:* History of Greece. Freshman course, required of candidates for the degree of A.B., first term, 2 hours per week. Professor Prentice, Mr. Hutson, and Mr. Hall.

14. Homer: selected portions of the Odyssey. Epic forms and syntax; features of structure and style. Freshman course, required of candidates for the degree of

A.B., second term, 2 hours per week. Professor Winans and Mr. Hutson.

15. Livy and Latin Prose Composition. The greater part of the first and a large part of the twenty-first and twenty-second books will be studied both as history and as Latin, one-quarter of the time being devoted to exercises in prose composition based upon portions of the text read. *Westcott:* Livy, Books I, XXI, and XXII. Freshman course, required of all candidates for the degrees of A.B., Litt.B., and B.S., first term, 4 hours per week. Professor Westcott, or one of the instructors.

16. Roman Comedy, Cicero's Letters, and Roman History. One-half of the time will be devoted to the study of selected comedies of Plautus and Terence; one-quarter to colloquial Latin as represented in selected letters of Cicero; and one-quarter to a survey of Roman history from the founding of the city. Freshman course, required of all candidates for the degrees of A.B., Litt.B., and B.S., second term, 4 hours per week. Professor Showerman, or an instructor.

21. Greek Drama: Aristophanes and Euripides. Selected plays. In 1904–5, Clouds, Frogs, Alcestis, Hippolytus. Lectures on the development of the drama, on the presentation of plays, on the authors and their works. Sophomore course, required of candidates for the degree of A.B., first term, 3 hours per week. Professors Winans and Robbins and Mr. Hutson.

22. Lucian. Selected dialogues, illustrative of the life and thought of the second century A.D. Brief account of the later Greek literature. Sophomore course, elective for candidates for the degree of A.B., second term, 3 hours per week. Professor Prentice.

23. Sophomore Elective Latin (A). Reading of prose literature of the Silver Age, as represented in Tacitus,

Pliny the Younger, and Suetonius, with incidental study of the political and social life of their time. *Tacitus:* Agricola and Germania (not in 1904–1905); *Pliny:* Letters; *Suetonius:* Lives of Julius and Augustus; *Cicero:* Letters (1904–1905 only). Sophomore course, elective for all candidates for the degrees of A.B., Litt.B., B.S., first term, 3 hours per week. Prerequisite to the following courses: Classics, Archæology. Professor Westcott, or an instructor.

24. Horace and Catullus. *Horace:* Odes and Satires; *Catullus:* Selections. Sophomore required for A.B., Required alternative for Litt.B. and B.S., second term, 3 hours per week. Professor West, or an instructor.

25. Sophomore Elective Latin (B), substitute for A. Honor Course. The period of the Civil Wars, 49–31 B.C., and the reigns of Tiberius and Augustus—studied in Cæsar, Suetonius, and Tacitus. Each member of the class required to write one historical paper and to edit an inscription from the Corpus Inscriptionum Latinarum. *Cæsar:* Civil War; *Suetonius:* Julius and Augustus; *Tacitus:* Annals; *Egbert:* Latin Inscriptions. Restricted Sophomore Elective for A.B., first term, 3 hours per week. Professor Westcott.

31. Plato. One or more short dialogues entire, with substantial portions of others: Protagoras, Phædo, Phædrus, Gorgias, Republic. Study of form, style, and philosophic content. In 1904–5, selections from Aristotle; the Nicomachean Ethics also will be read. Junior course, first term, 3 hours per week. Professor Winans.

32. Sophocles. Two plays will be read, and their literary qualities, dramatic construction, and stage-setting discussed. As far as possible these plays will also be read in Greek, metrically. Summaries of the

other plays of Sophocles will be presented. Lectures will be given on the myths involved, and on Sophocles' literary career. Junior course, second term, 3 hours per week. Professor Prentice, or an instructor.

33. Latin Literature of the Republic. General sketch. One lecture, two recitations weekly. Junior course, first term, 3 hours per week. Prerequisite to the subsequent courses in Classics. Professor Showerman.

34. Latin Literature of the Empire. General sketch. One lecture, two recitations weekly. Junior course, second term, 3 hours per week. Prerequisite to the subsequent courses in Classics. Dr. David Magie, Jr.

41. Æschylus: selected plays. In 1904–1905: Prometheus Bound, Seven against Thebes, Agamemnon. Lectures on the author and his plays. Senior course, first term, 3 hours per week. Prerequisite courses: Classics. Prerequisite to the subsequent courses in Classics. Professor Robbins.

42. Greek Poetry. Survey of Greek poetic literature from Homer to Theocritus. Lectures and discussions; select readings, especially from the lyric poets, individual work with theses. Senior course, second term, 3 hours per week. Professor Winans.

43. Greek Historians. One lecture will be given each week on the history of Greek literature, with special regard to the sources of Greek history. The other hours will be devoted to reading selections from Greek historians, in order to compare the different accounts given by the Greeks themselves of various epochs in their history. *Hill:* Sources for Greek History. Senior course, first term, 3 hours per week. Professor Prentice.

44. Comparative Grammar of Greek and Latin. Lectures and practical exercises. Reference books: *Brugmann, Hirt, Lindsay, Meyer, Stolz.* Senior course, second term, 3 hours per week. Prerequisite course: Classics. Professor Robbins.

45. Lucretius: De Rerum Natura. Reading and interpretation of the text, with occasional illustrative lectures in appreciation of the poem in its literary, scientific, and religious aspects. Thesis at end of course on some topic suggested by the work of the term. Harper's text or any approved edition. Reference books: Histories of Latin Literature and Ancient Philosophy. Senior course, first term, 3 hours per week. Prerequisite courses: Groups I–III Sophomore, IV on application to Professor, or Junior Elective Latin. Professor Packard.

46. Cicero: De Natura Deorum. Reading and interpretation of the text with selected portions of de Divinatione and de Fato, and citations from de Officiis, de Legibus, etc. Reading from Seneca's Moral Epistles. Occasional lectures illustrative of religious thought met in reading as above. Harper's text. Reference books: Histories of Latin Literature, Ancient Philosophy, etc. Senior course, second term, 3 hours per week. Prerequisite courses: Junior Elective Latin of Sophomore Groups I–III, and IV on application to the Professor. Professor Packard.

47. Roman Literary Criticism. *Quintillian:* Tenth book of the Institutio Oratoria; *Horace:* Epistles; *Tacitus:* The Dialogus. Senior course, first term, 3 hours per week. Professor West.

48. Tacitus. Reading of the annals and histories of Tacitus, with special attention to the author's style as a writer and his aims and methods as a historian. This statement is for the year 1905–1906. For the year 1904–1905 this course will be modified. Senior course, second term, 3 hours per week. Professor Westcott.

101. Aristophanes. Selected plays. Graduate course, first term, 3 hours per week. Professor Robbins.

102. Historical Latin and Greek Grammar. Phonology and morphology. Lectures and reading. *Brugmann*, *Hirt*, *Meyer*, *Stolz*, and *Lindsay*. Graduate course, second term, 3 hours per week. Professor Robbins.

103. Greek Inscriptions. Lectures will be given on the history of classical epigraphy, the alphabet, and the methods of interpretation. Practical exercises will be held in reading from casts and squeezes. Inscriptions of special historical value, chiefly those of the fifth century, will be interpreted and discussed. Graduate course, first term, 3 hours per week. Professor Prentice.

104. Thucydides. Critical study of the history of Thucydides. Graduate course, second term, 3 hours per week. Professor Winans.

105, 106. Mediæval Latin Literature. A course involving the extensive reading of representative writers and of the history of Mediæval Latin literature. Graduate course, both terms, 3 hours per week. Dean West.

108, 1. (Hist., Politics, and Econom., 108, 1.) Law Orations of Cicero, with a study of the legal institutions of his time. Graduate course, second term, 3 hours per week, alternating with 108, 11. Professor Westcott.

108, 11. (Hist., Politics, and Econom., 108, 11.) Sources of Early Roman Law. *Bruns:* Fontes Juris Romani Antiqui; *Lindsay:* Latin Inscriptions. Graduate course, second term, 3 hours per week, alternating with 108, 1. Professor Westcott.

110. Tacitus. Reading of the whole of the author's works so far as not previously read. Study of date, sources, method, purpose, etc., of each work, and of the development of the author's style in his successive periods. Results of study to be embodied in weekly papers to be handed in and discussed. Graduate course, second term, 3 hours per week. Professor Westcott.

112. Introduction to the Study of Mythology. Lectures and theses. Graduate course, second term, 3 hours per week. (Not given 1904–1905.) Professor Carter.

113. The Remains of Ancient Rome. A study of the topography and monuments of the ancient city with special reference to their historical and literary importance. Graduate course, first term, 3 hours per week. Professor Showerman.

114. Palæography and Text-Criticism. Reading of Latin manuscripts, search for material, collation, formation of genealogies, and construction of text. Lectures and direction leading to theses. Graduate course, second term, 3 hours per week. Dr. Richardson.

V. DEPARTMENT OF ENGLISH

PROFESSOR HUNT, *Head of the Department;* PROFESSORS HARPER, HENRY VAN DYKE, PARROTT, COVINGTON, AND AXSON; MR. TUCKERMAN, DR. CRAIG, MR. LONG, MR. KALLEN AND MR. CLEMONS

11, 12. Rhetoric and English Composition. Study of sentences and paragraphs of narration, description, exposition, and argument. Weekly, fortnightly, and monthly themes; assigned readings in English literature. *Hill:* Principles of Rhetoric. Freshman required course, both terms, 2 hours per week for A.B., Litt.B., and B.S. Freshmen; 3 hours per week for C.E. Freshmen. Professor Covington, Dr. Craig, Mr. Long, Mr. Kallen, or Mr. Clemons.

22. Outline Sketch of English Literature. A brief survey of English literature from earliest times to the Victorian Age. Occasional lectures; oral and written recitations; reports on required reading. There will be a considerable amount of reading required and an additional list of books for optional reading. *Moody and Lovett:* History of English Literature. Sophomore elective,

second term, 3 hours per week. Prerequisite to the choice of the English Department in Junior year. Professors Parrott, Axson, or Covington, or Dr. Craig.

31. English Literature: The Sixteenth Century. The revival of learning, the Reformation, the national awakening under the Tudors, and the influence of Italy, in their effect upon English letters. Spenser, Sidney, Lyly, and Marlowe will be studied. Attention will be paid to the history of the drama and of lyric poetry, and to the narratives of Elizabethan voyagers. Junior course, first term, 3 hours per week. Prerequisite courses: Sophomore English for A.B.; Sophomore English and Latin for Litt.B. Professor Harper.

32. English Literature: Shakespeare. Lectures and tests, either oral or written, on the following plays: Richard III, Midsummer Night's Dream, Romeo and Juliet, Merchant of Venice, Richard II, Henry IV, Parts 1 and 2, Henry V, As You Like It, Measure for Measure, Julius Cæsar, Hamlet, Macbeth, Othello, The Winter's Tale, The Tempest. Reference books: *Dowden:* Shakspeare, His Mind and Art; *Boas:* Shakspeare and His Predecessors. Junior course, second term, 3 hours per week. Professor Harper.

33. Middle and Modern English. Lectures on the history, vocabulary, and structure of the English language. Study of middle English syntax, readings of middle English texts, Chaucer, Langland. *Corson:* Chaucer's Canterbury Tales; *Bilderbeck:* Chaucer's Minor Poems; *Skeat:* Langland's Piers the Plowman. Reference books: *Saunders:* Canterbury Tales; *Lounsbury:* Studies in Chaucer; *Pollard:* Canterbury Tales; *Skeat:* Minor Poems of Chaucer. Junior course, first term, 3 hours per week. Prerequisite course: General English Literature. Prerequisite to Advanced Old English. Professor Hunt, Mr. Long, and Dr. Craig.

34. Elementary Old English. A grammatical and textual study, aiming to secure an accurate knowledge of the oldest forms of the language and the ability to read the oldest prose texts and the simpler specimens of the verse. *Bright:* Anglo-Saxon Reader; *Baskerville and Harrison:* Anglo-Saxon Reader; *Smith:* Old English Grammar. Reference books: *Oliphant:* Old and Middle English; *Lounsbury:* English Language, Part II; *Skeat:* Principles of English Etymology. Junior course, second term, 3 hours per week. Prerequisite course: General English Literature. Prerequisite to Advanced Old English. Professor Hunt, Dr. Craig, and Mr. Long.

41. Chaucer and His Times. The course will be mainly a reading course in Chaucer. Portions of his longer poems will be read in class, and other portions assigned for outside reading. Occasional lectures on Chaucer's environment and contemporaries. *Skeat:* The Student's Chaucer. Senior course, first term, 3 hours per week. Professor Parrott.

42. Seventeenth Century Non-Dramatic Literature. Lectures on the poets and prose-writers from the death of Shakespeare to the death of Milton, with special reference to the connection between literature and public life. Written reports on assigned reading, which will include Milton's poetry, his Areopagitica, and his Letter on Education, Browne's Religio Medici, Walton's Compleat Angler, Howell's Familiar Letters, and much of the Cavalier poetry. Senior course, second term, 3 hours per week. Professor Harper.

43. English Poetry of the Nineteenth Century. The course is designed to give as much information as possible about the subject and to prepare students for intelligent and interested reading. Senior course, first term, 3 hours per week. Professor Henry van Dyke.

44. Seventeenth Century Drama. A study of the non-Shakespearean drama, 1598–1642, including Ben Jonson, Chapman, Dekker, Middleton, Heywood, Rowley, Marston, Webster, Beaumont and Fletcher, Massinger, Ford, and Shirley. Lectures, discussions, and written reports from members of the class. Text-books: Mermaid and Temple editions. Senior course, second term, 3 hours per week. Prerequisite courses: preceding English courses. Professor Axson.

THE ENGLISH PRO-SEMINARY, open to qualified Seniors is in charge of Professor Hunt. It consists of the following sections:

1. The Development of Prose Forms in English Literature. First term. Professor Henry van Dyke.
2. Advanced Old English. First term. Professor Hunt.
3. Eighteenth Century Prose. Second term. Mr. Tuckerman.

101, 102. Shakespeare's Contemporaries and Successors in Elizabethan Drama. Graduate course, both terms, 3 hours per week. Professor Parrott.

103. Old and Middle English Dialects. A study of the phonology and accidence of the chief dialects of old and middle English, from the eighth to the thirteenth century, illustrated by copious readings from the literature of the period. Graduate course, first term, 3 hours per week. Dr. Craig.

VI. DEPARTMENT OF MODERN LANGUAGES

PROFESSOR VREELAND, *Head of the Department;* PROFESSORS A. G. CAMERON, LEWIS, HOSKINS, AND BLAU; MR. PRIEST, DR. BEAM, MR. AUSTIN, MR. KOREN, AND DR. CRITCHLOW

GERMANIC SECTION

11, 12. Beginners' German. Grammar, reading, and composition. Freshman course, both terms, 3 hours per week. Dr. Beam.

13, 14. German Prose and Poetry. Reading of selected works with drill in grammar and exercises in composition. Texts selected from the works of *Baumbach*, *Freytag*, *Storm*, and others. Freshman course, both terms, 2 hours per week for A.B. Freshmen; 3 hours per week for B.S., Litt.B., and C.E. Freshmen. Prerequisite course: Entrance German A. Prerequisite to Sophomore German. Professor Hoskins, Professor Blau, Mr. Priest, or Dr. Beam.

21, 22. Beginners' German. Grammar, reading, and composition. Sophomore elective course, both terms, 3 hours per week. Dr. Beam.

23, 24. Sophomore German. An Introduction to German literature of the eighteenth and nineteenth centuries. Reading of selected works; collateral reading. *Müller:* German Classics. Reference book: *Robertson:* History of German Literature. Sophomore elective course, both terms, 3 hours per week. Prerequisite course: Freshman German. Prerequisite to the Junior and Senior German courses. Mr. Priest.

31, 32. German Literature from Opitz to Schiller. During the first term two plays and some prose extracts from Lessing will be read and interpreted in the class. As collateral work the student will be required to read

another play of Lessing together with a biography (in English) of Lessing. Eight to ten lectures will be given on German literature from Opitz to Lessing's death. During the second term Schiller's prose and poetry will be studied. As collateral work the student will read a play of Schiller together with a biography (in English) of Schiller. Eight or ten lectures will be given on German literature from Lessing's death to Schiller's death. The examination will cover both the classroom and collateral work. Reference books: *Sherer's*, *Robertson's*, and *Francke's* histories of German Literature. Junior course, both terms, 3 hours per week. Prerequisite course: Sophomore German 23, 24. Professor Hoskins.

41, 42. Goethe's Life and Works. Lectures and reading. Götz von Berlichingen, Werther's Leiden, Iphigenie, Faust, Gedichte. Reference books: English and German works on Goethe's life and on Faust. Senior course, both terms, 3 hours per week. Prerequisite courses: Lessing's Life and Works, Schiller's Life and Works. Professor Blau.

43, 44. German Literature of the Nineteenth Century. This course comprises the reading of selected works, lectures, and collateral reading. Senior course, both terms, 3 hours per week. Dr. Beam.

101. Middle High German. Grammar, lectures, and reading. The course is designed both to furnish a foundation for the historical study of modern German and to serve as an introduction to the study of Germanic philology. Proficiency in modern German is required. *Paul:* Mittelhochdeutsche Grammatik; *Michels:* Mittelhochdeutsches Elementarbuch; *Weinhold:* Mittelhochdeutsches Lesebuch. Graduate course, first term, 3 hours per week. Professor Hoskins.

102. Old High German. Grammar, reading, and lectures

on the historical development of the German language. Knowledge of modern German and middle high German required, and some knowledge of Gothic, useful. *Braune:* Althochdeutsches Lesebuch; *Braune:* Althochdeutsches Grammatik. Graduate course, second term, 3 hours per week. Professor Hoskins.

103. Historical German Grammar. Introduction, phonology, morphology. Requires a knowledge of Gothic, old, and middle High German. Lectures. References to *Paul:* Grundriss der Germanischen Philologie; *Streitberg:* Urgermanische Grammatik. Graduate course, first term, 3 hours per week. Professor Hoskins.

104. Old Icelandic. Grammar, lectures, and reading. For advanced students. *Noreen:* Altisländische und Altnorwegische Grammatik; *Kahle:* Altisländisches Elementarbuch: *Ranisch:* Die Volsungasaga. Graduate course, second term, 3 hours per week. Professor Hoskins.

Romanic Section

11, 12. Beginners' French. Grammar, composition, and reading. *Fraser and Squair:* Grammar. Freshman course, both terms, 3 hours per week. Mr. Koren, Dr. Critchlow, or Mr. Austin.

13, 14. Freshman French. This course consists of reading and practical exercises in French syntax and composition, with collateral reading. Freshman course, both terms, 2 hours per week for A.B. Freshmen, 3 hours per week for Litt.B., B.S., and C.E. Freshmen. Prerequisite course: French A (entrance). Prerequisite to Sophomore French. Professors Cameron, Lewis, or Vreeland, Mr. Koren, Dr. Critchlow, or Mr. Austin.

21, 22. Beginners' French. Grammar, composition, and reading. *Fraser and Squair:* Grammar. Sophomore

elective, both terms, 3 hours per week. Mr. Koren, Dr. Critchlow, or Mr. Austin.

23, 24. Sophomore French. General introduction to the study of French literature. This course consists of a general survey of French literature, based on text-books, with a study of representative works of different periods. Sophomore elective, both terms, 3 hours per week. Prerequisite courses: Freshman French or French B (for entrance). Prerequisite to the Junior and Senior French courses. Professor Vreeland.

31, 32. French. The Classical Period. The classical period of French literature with special attention to the development of the drama. This course consists of a study of representative plays, collateral reading, and themes. Junior course, both terms, 3 hours per week. Prerequisite course: Sophomore French. Mr. Koren.

35. Italian. Elementary Italian grammar and composition. Reading of simple prose, followed by the Vita Nuova of Dante. *Grandgent:* Italian Grammar. Junior course, first term, 3 hours per week. Prerequisite to Italian 36. Mr. Austin.

36. Italian. Reading of the Inferno of Dante. *Scartazzini:* La Divina Commedia di Dante Alighieri. Junior course, second term, 3 hours per week. Prerequisite course: Italian 35. Prerequisite to Italian 45. Mr. Austin.

37, 38. Spanish. Grammar, composition and reading from modern Spanish authors. Junior course, both terms, 3 hours per week. Prerequisite to Spanish 47, 48. Professor Lewis.

41, 42. French. The Romantic Movement. The origin and development of the romantic movement. In this course themes on special topics are required in addition to a large amount of reading. Senior course, both terms, 3 hours per week. Prerequisite course: Sophomore French. Professor A. G. Cameron.

43, 44. Old French. A study of the language and literature of France from its origin to the Renaissance. This course consists of a general survey of the history of the language and of the extensive reading of texts with special attention to their literary side. Senior course, both terms, 3 hours per week. Prerequisite course: Sophomore French. Professor Lewis.

45. Italian. Reading of the Purgatorio of Dante. *Scartazzini:* La Divina Commedia di Dante Alighieri. Senior course, first term, 3 hours per week. Prerequisite course: Italian 36. Prerequisite to Italian 46. Mr. Austin.

46. Italian. Reading of the Paradiso of Dante. *Scartazzini:* La Divina Commedia di Dante Alighieri. Senior course, second term, 3 hours per week. Prerequisite course: Italian 45. Mr. Austin.

47. Spanish. General survey of Spanish literature and extensive readings from modern Spanish authors. Senior course, first term, 3 hours per week. Prerequisite courses: Spanish 37, 38. Prerequisite to Spanish 48. Professor Lewis.

48. Spanish. Spanish literature of the Golden Age and readings from Cervantes, Calderón, and Lope de Vega. Senior course, second term, 3 hours per week. Prerequisite courses: Spanish 37, 38, 47. Professor Lewis.

THE MODERN LANGUAGE PRO-SEMINARY, open to qualified Seniors, is in charge of Professor Vreeland.

101, 102. Molière. A study of Molière's life, evolution, social satire, influence, and imitators. Graduate course, both terms, 3 hours per week. Professor A. G. Cameron.

103, 104. Old French Philology. Lectures on old French etymology, morphology, and syntax. Graduate course, both terms, 3 hours per week. Professor Lewis.

COURSES NOT INCLUDED IN ANY OF THE PRECEDING DEPARTMENTS

49. Roman Law. One lecture and two recitations weekly in the History and Institutes of Roman Law. *Sohm:* Institutes of Roman Law; English translation. Senior course, first term, 3 hours per week. Professor Westcott. (This course falls in Division A.)

50. Roman Law. The Institutes of Justinian and Gaius in Latin: translation and exposition. *Sandars:* (or other) Justinian; *Poste:* Gaius. Senior course, second term, 3 hours per week. Prerequisite course: Roman Law 49. Professor Westcott. (This course falls in Division A.)

41, 42. Sanskrit. Senior course, both terms, 3 hours per week. Professor Winans. (This course falls in Division C.)

41, 42. Semitics. Senior course, both terms, 3 hours per week. Dr. Littmann. (This course falls in Division C.)

101, 102. Advanced Arabic. Interpretation of the more difficult texts; reading of manuscripts and inscriptions. *Noeldeke-Müller:* Delectus Veterum Carminum Arabicorum; *Imâd ad-Dîn:* Conquest of Syria and Palestine by Saladin (Ed. *Landberg*). Graduate course, both terms, 3 hours per week. (Not given 1904–1905.) Dr. Littmann.

103, 104. Ethiopic. Outline of the history of Ethiopic literature, with interpretation of selections from different works, and reading of manuscripts. Graduate course, both terms, 3 hours per week. (Not given 1904–1905.) Dr. Littmann.

105. Semitic Epigraphy. Interpretation of Phœnician, Palmyræan, Nabatæan, or south Arabian inscriptions. *Lidzbarski:* Handbuch der Nordsemitischen Epigraphik; *Hommel:* Südarabische Chrestomathie. Graduate course, first term, 3 hours per week. (Not given 1904–1905.) Dr. Littmann.

106. Advanced Syriac. Interpretation of a text from *Land:* Anecdota Syriaca. Graduate course, second term, 3 hours per week. (Not given 1904–1905.) Dr. Littmann.

Courses on other Semitic languages and their literature, and in addition on Coptic and Turkish, may be given if desired.

107, 108. Advanced Sanskrit. Reading of classical and Vedic Sanskrit in the first and second terms. *Windisch:* Zwölf Hymnen des Rig Veda; or *Peterson:* Handbook to the Study of the Rig Veda, Part II. Graduate course, both terms, 3 hours per week. Professor Winans or Professor Robbins.

109, 110. Avesta. Grammar and reading of selected texts. *Jackson:* Avesta Grammar, Avesta Reader, first series; *Geldner:* Avesta; *Mills:* Gâthâs. Graduate course, both terms, 3 hours per week. Professor Robbins.

ACADEMIC FRESHMAN FIRST TERM SCHEDULE, 1904–1905

Chapel at 8 for Mathematical Divisions, which are even; at 9 for odd numbered Divisions. Hygiene divisions are same as Mathematical Divisions.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	Hygiene I, III Alg V κ S1 Trig VII ε D28 Trig IX ι D18 Alg XIII η D29	Trig I ε D28 Alg V κ S1 Alg IX η D29 Spher Trig XIII γ (ι) D18 Hygiene VII, XI	Trig I ε D28 Alg III ζ D19 Trig V α S7 Alg IX η D29 Alg XI κ S1 Spher Trig XIII γ (ι) D18	Alg III ζ D19 Trig V α S7 Trig VII ε D28 Trig IX ι D18 Alg XI κ S1 Alg XIII η D29	Alg I β (ζ) D19 Trig III α S7 Alg VII κ S1 (Sph) Trig XI ι D18 Hygiene V, 1st ½ of IX	Alg I β (ζ) D19 Trig III α S7 Alg VII κ S1 (Sph) Trig XI ι D18 Hygiene XIII, 2nd ½ of IX
9	Alg II η D29 Alg VI κ S1 Trig VIII ε D28 Trig X ι D18 Hygiene IV, XIV	Spher Trig II γ (ι) D18 Alg VI κ S1 Alg X η D29 Trig XIV ε D28 Hygiene VIII, XII	Spher Trig II γ (ι) D18 Alg IV ζ D19 Trig VI α S7 Alg X η D29 Alg XII κ S1 Trig XIV ε D28	Alg II η D29 Alg IV ζ D19 Trig VI α S7 Trig VIII ε D28 Trig X ι D18 Alg XII κ S1	Trig IV α S7 Alg VIII 1 Sph Trig XII ι D18 Alg XIV β (ζ) D19 Hygiene VI, 1st ½ of X	Trig IV α S7 Alg VIII κ S1 Sph Trig XII ι D18 Alg XIV β (ζ) D19 Hygiene II, 2nd ½ of X
10	Latin I γ D16 Latin III η D12 Latin V ι D17 Greek VII ε D4	Latin I γ D16 Latin III η D12 Latin V ι D17 Greek VII ε D4	Latin I γ D16 Latin III η D12 Latin V ι D17 Greek VII ε D4	Latin I γ D16 Latin III η D12 Latin V ι D17 Greek VII ε D13	English I D28 English III D29 English V D16	English I D28 English III D29 English V D16
11	Latin II γ D16 Latin IV η D12 Latin VI ε D13	Latin II γ D16 Latin IV η D12 Latin VI ε D13	Latin II γ D16 Latin IV η D12 Latin VI ε D13	Latin II γ D16 Latin IV η D12 Latin VI ε D13	English II D28 English IV D29 English VI D16	English II D28 English IV D29 English VI D16
12	Greek I γ D26 Greek III ε D4 Greek V δ D13 Latin VII ζ D5	Greek I γ D26 Greek III ε D4 Greek V δ D13 Latin VII ζ D5	Greek I γ D26 Greek III ε D4 Greek V δ D13 Latin VII ζ D5	Greek I γ D26 Greek III ε D4 Greek V δ D13 Latin VII ζ D5	French I 6 French III D4 German I D7 German III D5	French I D6 French III D4 German I D7 German III D5
1	Greek II γ D26 Greek IV ε D4 Greek VI δ D13 Latin VIII* ζ D5	Greek II γ D26 Greek IV ε D4 Greek VI δ D13 Latin VIII* ζ D5	Greek II γ D26 Greek IV ε D4 Greek VI δ D13 Latin VIII* ζ D5	Greek II γ D26 Greek IV ε D4 Greek VI δ D13 Latin VIII* ζ D5	French II D6 French IV D4 German II D7 German IV D5	French II D6 French IV D4 German II D7 German IV D5
2–6						

Roman numerals after subjects indicate divisions.
D = Dickinson Hall, S = John C. Green School of Science. Arabic numerals after D or S indicate rooms.

ACADEMIC FRESHMAN SECOND TERM SCHEDULE, 1904–1905

Chapel at 8.45 for mathematical divisions which are even; at 9 for those which are odd.

	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
8	Alg v	σ S1	Geom i	γ D28	Geom i	γ D28	Geom iii	γ D28	Alg i	φ (ε) D19	Alg i	φ (ε) D19
	Geom xi	κ D29	Alg v	σ S1	Alg iii	κ D29	Geom v	ν D18	Geom iii	γ D28	Alg iii	κ D29
	Geom xiii	ν D18	Geom xi	κ D29	Geom vii	ρ S7	Geom vii	ρ S7	Geom v	ν D18	Alg vii	σ S1
			Geom xiii	ν D18	Alg ix	σ S1	Alg ix	σ S1	Alg vii	σ S1	Geom ix	ρ S7
					Alg xi	ε D19	Alg xi	ε D19	Geom ix	ρ S7		
					Geom xiii	ν D18	Alg xiii	κ D29	Alg xiii	κ D 29		
9	Geom ii	κ D29	Geom ii	κ D29	Alg ii	ε D19	Alg ii	ε D19	Geom iv	γ D28	Alg iv	κ D29
	Alg vi	σ S1	Alg vi	σ S1	Alg iv	κ D29	Geom iv	γ D28	Geom vi	ν D18	Alg viii	σ S1
	Geom xii	γ D28	Geom xii	γ D28	Geom viii	ρ S7	Geom vi	ν D18	Alg viii	σ S1	Geom x	ρ S7
	Geom xiv	ν D18	Geom xiv	ν D18	Alg x	σ S1	Geom viii	ρ S7	Geom x	ρ S7	Alg xii	φ (ε) D19
					Geom xii	γ D28	Alg x	σ S1	Alg xii	φ (ε) D19		
					Geom xiv	ν D18	Alg xiv	κ D29	Alg xiv	κ D29		
10	Latin i	D16	Latin i	D16	Latin i	D16	Latin i	D16	English i	D13	English i	D13
	Latin iii	D12	Latin iii	D12	Latin iii	D12	Latin iii	D12	English iii	D18	English iii	D18
	Greek v	D13	Greek v	D13	Greek v	D13	Greek v	D13	English v	D28	English v	D28
11	Latin ii	S1	Latin ii	S1	Latin ii	S1	Latin ii	S1	English ii	D13	English ii	D13
	Latin iv	D16	Latin iv	D16	Latin iv	D16	Latin iv	D16	English iv	D18	English iv	D18
	Greek vi	D13	Greek vi	D13	Greek vi	D13	Greek vi	D13	English vi	D28	English vi	D28
12	Greek i	D4	Greek i	D4	Greek i	D4	Greek i	D4	French i	D6	French i	D6
	Greek iii	D13	Greek iii	D13	Greek iii	D13	Greek iii	D13	French iii	D4	French iii	D4
	Latin v	D26	Latin v	D26	Latin v	D26	Latin v	D26	German i	D7	German i	D7
									German iii	D5	German iii	D5
1	Greek ii	D4	Greek ii	D4	Greek ii	D4	Greek ii	D4	French ii	D6	French ii	D6
	Greek iv	D13	Greek iv	D13	Greek iv	D13	Greek iv	D13	French iv	D4	French iv	D4
	Latin vi	D16	Latin vi	D16	Latin vi	D16	Latin vi	D16	German ii	D7	German ii	D7
									German iv	D5	German iv	D5
2-6												

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ACADEMIC SOPHOMORE FIRST TERM SCHEDULE, 1904–1905

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	History I D26 History IV S28 History VII D13	History I D26 History IV S28 History VII D13	History I D26 History IV S28 History VII D13	Rqd Greek I α D12 Rqd Greek III δ D13 Rqd Greek V β D4	Rqd Greek I α D12 Rqd Greek III δ D13 Rqd Greek V β D4	Rqd Greek I α D12 Rqd Greek III δ D13 Rqd Greek V β D4
9	Chemistry I, II C History II D26 History V S28 History VIII D13 French III D6 German III D7	Chemistry I, II C History II D26 History V S28 History VIII D13 French III D6 German III D7	Chemistry I, II C History II D26 History V S28 History VIII D13 French III D6 German III D7	Rqd Greek II α D12 Rqd Greek IV δ D13 Rqd Greek VI β D4	Rqd Greek II α D12 Rqd Greek IV δ D13 Rqd Greek VI β D4	Rqd Greek II α D12 Rqd Greek IV δ D13 Rqd Greek VI β D4
10	French I D6 German II D7 History III D13 History VI S28	French I D6 German II D7 History III D13 History VI S28	French I D6 German II D7 History III D13 History VI S28	Rqd Logic I, II D8 Rqd Logic III, IV D8	Rqd Logic I, II D8 Rqd Logic III, IV D8	Rqd Logic I D8 Rqd Logic III D13
11	German I D7 French II D6 History IX S28 History X D26	German I D7 French II D6 History IX S28 History X D26	German I D7 French II D6 History IX S28 History X D26			Rqd Logic II D8 Rqd Logic IV D13
12	Math I γ D18 Math III ε D28 Math V η D19 El Latin II γ D16 El Latin IV D17	Math I γ D18 Math III ε D28 Math V η D19 El Latin II γ D16 El Latin IV D17	Math I γ D18 Math III ε D28 Math V η D19 El Latin II γ D16 El Latin IV D17	Rqd Physics I S23	Rqd Physics I S23	Rqd Physics I S13
1	El Latin I γ D16 El Latin III D17 Math II ε D28 Math IV η D19 Math VI γ D18	El Latin I γ D16 El Latin III D17 Math II ε D28 Math IV η D19 Math VI γ D18	El Latin I γ D16 El Latin III D17 Math II ε D28 Math IV η D19 Math VI γ D18	Rqd Physics II S23	Rqd Physics II S23	Rqd Physics II S23
2-6						

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ACADEMIC SOPHOMORE SECOND TERM SCHEDULE, 1904–1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	English I, II, III S10	English I S10 English II S28 English III S31	English I S10 English II S28 English III S31	Latin I D14 Latin III D12 Latin V D13	Latin I D14 Latin III D12 Latin V D13	Latin I D14 Latin III D12 Latin V D13
9	Chemistry I, II C English IV, V, VI S10 French III D6 German III D7	Chemistry I, II C English IV S10 English V S28 English VI S31 French III D6 German III D7	Chemistry I, II C English IV S10 English V S28 English VI S31 French III D6 German III D7	Latin II D14 Latin IV D12 Latin VI D13	Latin II D14 Latin IV D12 Latin VI D13	Latin II D14 Latin IV D12 Latin VI D13
10	French I D6 German II D7 Eng VII, VIII, IX S10	French I D6 German II D7 English VII S10 English VIII S28 English IX S31	French I D6 German II D7 English VII S10 English VIII S28 English IX S31	Psych I, II, III τ D8	Psych IV, V, VI τ D8 Psych III φ D26	Psych I, II, III τ D8 Psych IV φ D26
11	German I D7 French II D6	German I D7 French II D6	German I D7 French II D6	Psych IV, V, VI τ D8	Psych I τ D8 Psych II φ D26	Psych V τ D8 Psych VI φ D26
12	Math I τ D18 Math III ν D19 Greek II D12	Math I τ D18 Math III ν D19 Greek II D12	Math I τ D18 Math III ν D19 Greek II D12	Physics I S23	Physics I S23	Physics I S23
1	Math II κ D19 Math IV τ D18 Greek I D12	Math II κ D19 Math IV τ D18 Greek I D12	Math II κ D19 Math IV τ D18 Greek I D12	Physics II S23	Physics II S23	Physics II S23
2						

Roman numerals after subjects indicate divisions. Arabic numerals after D and S indicate rooms in Dickinson Hall and in the John C. Green School of Science respectively.

ACADEMIC JUNIOR FIRST TERM SCHEDULE, 1904-1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Italian, 35 D5	Italian, 35 D5	Italian, 35 D5	Physics, 31 S23 Adv Psych, 33 D8 French, 31 D6 Graphics S	Physics, 31 S23 Adv Psych, 33 D8 French, 31 D6 Graphics S	Physics, 31 S23 Adv Psych, 33 D8 French, 31 D6 Graphics S
9	Jurisprud, 33 D21 Biology, 31 S25	Jurisprud, 33 D21 Biology, 31 S25	Jurisprud, 33 D21 Biology, 31 S25	History, 31 S10 German, 31 D7 Graphics S	History, 31 S10 German, 31 D Graphics S	History, 31 S10 German, 31 D7 Graphics S
10	Art & Arch, 31 Solid Geom, 31 D18	Art & Arch, 31 Solid Geom, 31 D18	Art & Arch, 31 Solid Geom, 31 D18	Theor Chem, 31 C Diff Equat, 33 D19 Graph Stat, 31 S	Theor Chem, 31 C Diff Equat, 33 D19 Graph Stat, 31 S	Theor Chem, 31 C Diff Equat, 33 D19 Graph Stat, 31 S
11	English Phil, 33 D2 Mineralogy, 31 C	English Phil, 33 D2 Mineralogy, 31 C	English Phil, 33 D2 Mineralogy, 31 C	English Lit, 31 D2 Astronomy, 31 S25 Graph Stat, 31 S	English Lit, 31 D2 Astronomy, 31 S25 Graph Stat, 31 S	English Lit, 31 D2 Astronomy, 31 S25 Graph Stat, 31 S
12	Hist Philos, 31 D8 Spanish, 37 D6	Hist Philos, 31 D8 Spanish, 37 D6	Hist Philos, 31 D8 Spanish, 37 D6	Economics, 35 D2 Geodesy, 31 S12	Economics, 35 D2 Geodesy, 31 S12	Economics, 35 D2 Geodesy, 31 S12
1	Greek, 31 D12 Qual Analysis, 33 C	Greek, 31 D12 Qual Analysis, 33 C	Greek, 31 D12 Qual Analysis, 33 C	Latin, 33 D14 Histology, 33 Lab	Latin, 33 D14 Histology, 33 Lab	Latin, 33 D14 Histology, 33 Lab
2-6						

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D = Dickinson Hall. S = John C. Green School of Science. Arabic numerals after D or S indicate rooms.

ACADEMIC JUNIOR SECOND TERM SCHEDULE, 1904-1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Italian 36 D5	Italian 36 D5	Italian 36 D5	Physics 32 S23 Adv Logic 34 D4 French 32 D6	Physics 32 S23 Adv Logic 34 D4 French 32 D6	Physics 32 S23 Adv Logic 34 D4 French 32 D6
9	Const Gov 34 D21 Biology 32 S25	Const Gov 34 D21 Biology 32 S25	Const Gov 34 D21 Biology 32 S25	History 32 S10 German 32 D7	History 32 S10 German 32 D7	History 32 S10 German 32 D7
10	Art & Arch 32 S25 Geometry 32 D18	Art & Arch 32 S25 Geometry 32 D18	Art & Arch 32 S25 Geometry 32 D18	Chemistry 32 C9 Anal Mech 34 D19	Chemistry 32 C9 Anal Mech 34 D19	Chemistry 32 C9 Anal Mech 34 D19
11	Eng Phil 34 D2,4&5 Phys Geog 34 N	Eng Phil 34 D2,4&5 Phys Geog 34 N	Eng Phil 34 D2,4&5 Phys Geog 34 N	English Lit 32 D2	English Lit 32 D2	English Lit 32 D2
12	Hist Philos 32 D8 Spanish 38 D7	Hist Philos 32 D8 Spanish 38 D7	Hist Philos 32 D8 Spanish 38 D7	Economics 36 D2 Geology 32 N	Economics 36 D2 Geology 32 N	Economics 36 D2 Geology 32 N
1	Greek 32 D26 Quan Analysis 34 C	Greek 32 D26 Quan Analysis 34 C	Greek 32 D26 Quan Analysis 34 C	Latin 34 D14 Botany 34 S25	Latin 34 D14 Botany 34 S25	Latin 34 D14 Botany 34 S25
2-6						

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ACADEMIC SENIOR FIRST TERM SCHEDULE, 1904–1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Spanish, 47 D6 Paleontology, 45 N Mathematics, 41 S9 Chemistry, 45A C	Spanish, 47 D6 Paleontology, 45 N Mathematics, 41 S9 Chemistry, 45A C	Spanish, 47 D6 Paleontology, 45 N Mathematics, 41 S9 Chemistry, 45A C	Geology, 41 N Exp Psych, 43 Lab German, 41 D7	Geology, 41 N Exp Psych, 43 Lab German, 41 D7	Geology, 41 N Exp Psych, 43 Lab German, 41 D7
9	Biology, 41 Lab Outlines Phil, 41 D4 English, 41 S10 Roman Law, 49 D16	Biology, 41 Lab Outlines Phil, 41 D4 English, 41 S10 Roman Law, 49 D16	Biology, 41 Lab Outlines Phil, 41 D4 English, 41 S10 Roman Law, 49 D16	Physics, 43 Lab Economics, 49 D14 French Lit, 41 D2 Biology, 43 S25	Physics, 43 Lab Economics, 49 D14 French Lit, 41 D2 Biology, 43 S25	Physics, 43 Lab Economics, 49 D14 French Lit, 41 D2 Biology, 43 S25
10	Greek, 43 D26 Chemistry, 43A C Old French, 43 S1	Greek, 43 D26 Chemistry, 43A C Old French, 43 S1	Greek, 43 D26 Chemistry, 43A C Old French, 43 S1	Art & Arch, 43 English, 43 D21 Sanskrit	Art & Arch, 43 English, 43 D21 Sanskrit	Art & Arch, 43 English, 43 D21 Sanskrit
11	Ethics, 45 D8 Latin, 45 D14 Politics, 47 S10	Ethics, 45 D8 Latin, 45 D14 Politics, 47 S10	Ethics, 45 D8 Latin, 45 D14 Politics, 47 S10	Greek, 41 D4 Mathematics, 43 D19 Amer Hist, 43 S10	Greek, 41 D4 Mathematics, 43 D19 Amer Hist, 43 S10	Greek, 41 D4 Mathematics, 43 D19 Amer Hist, 43 S10
12	Mineralogy, 47 C Art & Arch, 41 German, 43 S31 History, 41 D21	Mineralogy, 47 C Art & Arch, 41 German, 43 S31 History, 41 D21	Mineralogy, 47 C Art & Arch, 41 German, 43 S31 History, 41 D21 Theor Pr Mot, 41 S13	Politics, 45 S10 Latin, 47 D14 Theor Pr Mot, 41 S13	Politics, 45 S10 Latin, 47 D14 Theor Pr Mot, 41 S13	Politics, 45 S10 Latin, 47 D14
1	Italian, 45 D7 Physics, 41 Lab	Italian, 45 D7 Physics, 41 Lab	Italian, 45 D7 Physics, 41 Lab Theor Pr Mot, 41 S13	Geology, 41 N Pract Astron, 41 Obs Theor Pr Mot, 41 S13	Geology, 41 N Pract Astron, 41 Obs Theor Pr Mot, 41 S13	Geology, 41 N Pract Astron, 41 Obs
2–6	Chem, 41A C	Chem, 41A C	Chem, 41A C	Chem, 41A C Chem, 47A C Pract Astron, 41 Obs	Chem, 41A C Chem, 47A C Pract Astron, 41 Obs	Chem, 41A C Chem, 47A C Pract Astron, 41 Obs

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ACADEMIC SENIOR SECOND TERM SCHEDULE, 1904–1905

	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
8	Spanish 48	D7	Spanish 48	D7	Spanish 48	D7	Geology 42	N	Geology 42	N	Geology 42	N
	Mathematics 42	S6	Mathematics 42	S6	Mathematics 42	S6	German 42	D7	German 42	D7	German 42	D7
	German 44	D6	German 44	D6	German 44	D6						
9	Biology 42	Lab	Biology 42	Lab	Biology 42	Lab	Physics 44	Lab	Physics 44	Lab	Physics 44	Lab
	English 42	D2	English 42	D2	English 42	D4	Economics 50	D8	Economics 50	D8	Economics 50	D8
	Roman Law 50	D16	Roman Law 50	D16	Roman Law 50	D16	French Lit 42	D2	French Lit 42	D2	French Lit 42	D2
							Biology 44	S25	Biology 44	S25	Biology 44	S25
10	Greek 44	L	Greek 44	L	Greek 44	L	(Art & Arch 44)		Art & Arch 44		(Art & Arch 44)	
	Paleontology 46	N	Paleontology 46	N	Paleontology 46	N	English 44	D2	English 44	D2	English 44	D2
	Old French 44	D5	Old French 44	D5	Old French 44	D5	Philos 44	D4	Philos 44	D4	Philos 44	D4
	Chemistry 44A	C9	Chemistry 44A	C9	Chemistry 44A	C9	Sanskrit		Sanskrit		Sanskrit	
	Pr Mot 42	S13	Pr Mot 42	S13	Pr Mot 42	S13						
	History 42	D2	History 42	D2	History 42	D2						
11	Ethics 46	D8	Ethics 46	D8	Ethics 46	D8	Greek 42	L	Greek 42	L	Greek 42	L
	Latin 46	D14	Latin 46	D14	Latin 46	D14	Mathematics 44	D19	Mathematics 44	D19	Mathematics 44	D19
	Politics 48	S10	Politics 48	S10	Politics 48	S10	Amer Hist 44	D21	Amer Hist 44	D21	Amer Hist 44	D21
	Pr Mot 42	S13	Pr Mot 42	S13	Pr Mot 42	S13	Phys Chem 44	S6	Phys Chem 44	S6	Phys Chem 44	S6
12	Art & Arch 42	S25	Art & Arch 42	S25	Art & Arch 42	S25	Politics 46	S10	Politics 46	S10	Politics 46	S10
	Phys Geog 44	N	Phys Geog 44	N	Phys Geog 44	N	Latin 48	D14	Latin 48	D14	Latin 48	D14
	Hist Phil 42	D8	Hist Phil 42	D8	Hist Phil 42	D8	Hist Nat Phil	D2	Hist Nat Phil	D2	Hist Nat Phil	D2
1	Italian 46	D7	Italian 46	D7	Italian 46	D7	Pract Astron 42	Obs	Pract Astron 42	Obs	Pract Astron 42	Obs
	Physics 42	S23	Physics 42	S23	Physics 42	S23						
	Chemistry 48A	C	Chemistry 48A	C	Chemistry 48A	C						
2	Chemistry 42A	C	Chemistry 42A	C	Chemistry 42A	C	Chem 42A	C	Chem 42A	C	Chem 42A	C
							Pract Astron 42	Obs	Pract Astron 42	Obs	Pract Astron 42	Obs
							Chem 46	C	Chem 46	C	Chem 46	C

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JOHN C. GREEN SCHOOL OF SCIENCE

FACULTY

WOODROW WILSON, PH.D., LITT.D., LL.D., *President.*

HENRY BURCHARD FINE, PH.D., *Dean of the Faculty, Dod Professor of Mathematics.*

ANDREW FLEMING WEST, PH.D., LL.D., HON. D.LITT. (Oxon.), *Dean of the Graduate School, Giger Professor of Latin.*

CYRUS FOGG BRACKETT, M.D., LL.D., *Henry Professor of Physics.*

HENRY BEDINGER CORNWALL, E.M., PH.D., *Professor of Applied Chemistry and Mineralogy.*

GEORGE MACLOSKIE, D.SC., LL.D., *Professor of Biology.*

CHARLES MCMILLAN, A.M., C.E., *Professor of Civil Engineering and Applied Mathematics.*

CHARLES AUGUSTUS YOUNG, PH.D., LL.D., *Professor of Astronomy.*

CHARLES GREENE ROCKWOOD, JR., PH.D., *Clerk of the Faculty, Professor of Mathematics.*

WILLIAM LIBBEY, D.SC., *Professor of Physical Geography.*

WILLIAM BERRYMAN SCOTT, PH.D., *Blair Professor of Geology.*

FREDERICK NEWTON WILLSON, A.M., C.E., *Professor of Descriptive Geometry, Stereotomy, and Technical Drawing.*

WILLIAM FRANCIS MAGIE, PH.D., *Clerk of the University Faculty, Professor of Physics.*

LEROY WILEY MCCAY, D.SC., *Professor of Chemistry.*

HENRY DALLAS THOMPSON, D.SC., PH.D., *Professor of Mathematics.*

HERBERT STEARNS SQUIER SMITH, C.E., *Professor of Applied Mechanics.*

WALTER BUTLER HARRIS, C.E., *Professor of Geodesy.*

ELMER HOWARD LOOMIS, PH.D., *Professor of Physics.*

EDGAR ODELL LOVETT, PH.D., *Professor of Mathematics.*

WALTER MEAD RANKIN, PH.D., *Professor of Biology.*

CHARLES FREEMAN WILLIAMS MCCLURE, A.M., *Professor of Comparative Anatomy.*

ALEXANDER HAMILTON PHILLIPS, D.Sc., *Professor of Mineralogy.*
FRED NEHER, A.M., *Professor of Analytical and Organic Chemistry.*
ULRIC DAHLGREN, M.S., *Assistant Professor of Histology.*
WILLIAM MAXWELL REED, *Assistant Professor of Astronomy.*
HOWARD MCCLENAHAN, E.E., M.S., *Assistant Professor of Physics.*

INSTRUCTORS

WILLIAM HENRY MCLAUCHLAN, PH.D., *Instructor in Chemistry.*
WILLIAM GILLESPIE, PH.D., *Instructor in Mathematics.*
MARCUS STULTS FARR, D.Sc., *Assistant in Geology.*
WILLIAM FOSTER, JR., PH.D., *Instructor in Chemistry.*
LUTHER PFAHLER EISENHART, PH.D., *Instructor in Mathematics.*
JOHN STOUT VAN NEST, M.S., *Instructor in Mineralogy.*
CHARLES FREDERICK SILVESTER, *Assistant in Anatomy.*
ALFRED ALEXANDER WOODHULL, M.D., LL.D., *Lecturer on Personal Hygiene and on General Sanitation.*
CHARLES SILAS SINCERBEAUX, A.B., *Instructor in Geodesy.*
TRUMAN STEPHEN WOODWARD, A.B., *Assistant in General Chemistry.*
OLIVER DIMON KELLOGG, PH.D., *Instructor in Mathematics.*
JOHN GALE HUN, PH.D., *Instructor in Mathematics.*
CARL EBEN STROMQUIST, PH.D., *Instructor in Mathematics.*
GILBERT VAN INGEN, *Assistant in Geology.*
PHILIP ELY ROBINSON, PH.D., *Instructor in Physics.*
EDWIN PLIMPTON ADAMS, PH.D., *Instructor in Physics.*
EDWARD CHARLES MCWILLIAMS, B.S., *Instructor in Graphics.*
FORD CUSHING SMITH, C.E., *Instructor in Civil Engineering.*
WALTER LYMAN UPSON, M.S., *Instructor in Electrical Engineering and Physics.*
CLAUDE SILBERT HUDSON, M.S., *Instructor in Physics.*
HARVEY CLAYTON RENTSCHLER, A.M., *Instructor in Physics.*

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. DEPARTMENT OF MATHEMATICS

DEAN FINE, *Head of the Department;* PROFESSORS ROCKWOOD, THOMPSON, AND LOVETT; DR. GILLESPIE, DR. EISENHART, DR. KELLOGG, DR. HUN, AND DR. STROMQUIST

11, 12. Selected Portions of Algebra and Elementary Theory of Equations. The elementary treatment of infinite series, undetermined coefficients, the binomial theorem for fractional and negative exponents, the theory of logarithms, determinants, and the elements of the theory of equations, including Horner's method for solving numerical equations. *Fine:* College Algebra. Required of all Freshmen, both terms, 2 hours per week. Professor Rockwood, Dean Fine, Dr. Gillespie, Dr. Eisenhart, Dr. Kellogg, Dr. Hun, or Dr. Stromquist.

13. Plane Trigonometry. Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for 0°, 30°, 45°, 60°, 90°, 120°, 135°, etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. The circular measure of angles. The inverse trigonometric functions. Required of all Freshmen who do not take 15, Spherical Trigonometry, first term, 2 hours per week. Professor Rockwood, Professor Thompson, Dr. Gillespie, or Dr. Hun.

15. Spherical Trigonometry and Applications of Trigonometry. Required of all Freshmen who do not take 13, Plane Trigonometry, first term, 2 hours per week. Professor Thompson or Dr. Hun.

16. Conic Sections, Treated from the Cartesian Standpoint. Required of all Freshmen, second term, 2 hours per week for A.B., Litt.B., and B.S. Freshmen, 3 hours per week for C.E. Freshmen. Professor Rockwood, Professor Thompson, Dr. Gillespie, Dr. Eisenhart, Dr. Kellogg, Dr. Hun, or Dr. Stromquist.

21 A. Conic Sections, Treated from the Cartesian Standpoint. Elective, open to all Sophomores, except candidates for the C.E. degree; first term, 3 hours per week. Prerequisite to the Departments of Mathematics and Physics. Professor Thompson, Dr. Gillespie, or Dr. Kellogg.

22. Differential and Integral Calculus. *Osborne:* Differential and Integral Calculus. Elective course, open to all Sophomores, except candidates for the C.E. degree, second term, 3 hours per week. Prerequisite to the Departments of Mathematics and Physics. Professor Thompson, Dr. Gillespie, or Dr. Kellogg.

25, 26. Differential and Integral Calculus and Elementary Differential Equations. Required of all C.E. Sophomores; first term, 5 hours per week; second term, 3 hours per week. Professor Lovett.

31, 32. Analytic Geometry. Solid geometry during the first term; advanced conic sections during the second term. Junior course, both terms, 3 hours per week. Prerequisite course: (after this year) Mathematics 21, 22. Prerequisite to Mathematics 43, 44. Professor Thompson.

33. Differential Equations. *Murray:* Differential Equations. Junior course, first term, 3 hours per week. Prerequisite course: Calculus. Prerequisite to the course in Analysis in Senior year. Dean Fine.

34. Analytical Mechanics. An elementary course in mechanics, dealing with the general principles of mechanics, the movements of rigid bodies, the statics and dynamics of fluids, and the theory of the potential. Recitations and lectures. *Love:* Theoretical Mechanics. Junior course, second term, 3 hours per week. Prerequisite courses: Mathematics 21, 22, Mathematics 31. Dr. Eisenhart.

41, 42. Advanced Calculus and Elements of the Theory of Functions. Elementary course introductory to the notions and methods of modern mathematical analysis. Lectures and collateral reading of Goursat's Cours d'Analyse in Hedrick's English translation. Reference books: *Whittaker:* Introduction to Modern Analysis; *Harkness and Morley:* Introduction to Analytic Functions. Senior course, both terms, 3 hours per week. Prerequisite courses: the courses in differential and integral calculus. Prerequisite to the graduate courses in mathematics and astronomy. Professor Lovett.

43, 44. Infinitesimal Geometry. Introductory course in the theory of curves in space and curved surfaces. Lectures. Senior course, both terms, 3 hours per week. Prerequisite courses: Mathematics 21, 22, 31, 32, 33. Dr. Eisenhart.

THE PRO-SEMINARY IN MATHEMATICS. There is a pro-seminary in mathematics in which historical readings in mathematics are pursued under the direction of Dean Fine.

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101. Theory of Substitutions. Elementary theory of substitutions, of groups of substitutions and rotations.

Application of the group theory to the solution of algebraic equations. *Netto:* Bolza's Paper in the American Journal of Mathematics. Graduate course first term, 3 hours per week. Prerequisite course: Advanced Algebra. Dr. Gillespie.

102. The Invariant Theory of Binary Quantics, developed by the Symbolic Notation of Clebsch. Reference books: *Clebsch* and *Gordan*. Graduate course, second term, 3 hours per week. Prerequisite course: Advanced Algebra. Dr. Gillespie.

103. Theory of Functions of a Complex Variable. Advanced course. Graduate course, first term, 3 hours per week. Dean Fine.

104. Theory of Ordinary Differential Equations. Graduate course, second term, 3 hours per week. Dean Fine.

106. Elliptic Functions. Graduate course, second term, 3 hours per week. Professor Thompson.

107. Calculus of Variations. Lectures with illustrative problems. Topics: necessary conditions, boundary conditions, construction of fields, *Weierstrass'* E-function, sufficient conditions, isoperimetric problems, generalizations, relation to differential equations and function-theory. Reference books: *Kneser*, *Bolza;* lectures of *Schwarz* and *Zermelo*. Graduate course, first term, 3 hours per week. Dr. Kellogg.

108. Partial Differential Equations, with special regard to the modern methods of determining solutions by boundary conditions. Graduate course, second term, 3 hours per week. Dr. Kellogg.

109, 110. Lie's Transformation Groups, with applications to differential equations and geometry. Graduate course, both terms, 3 hours per week. Professor Lovett.

111. Infinitesimal Geometry. Graduate course, first term, 3 hours per week. Professor Thompson.

112. Infinitesimal Geometry; either (*a*) Finite and Infinitesimal Deformations of Surfaces, or (*b*) Congruences and Complexes. Graduate course, second term, 3 hours per week. Dr. Eisenhart.

113, 114. Special Topics in Metrical Geometry. Historical readings of some of the memoirs of *Monge*, *Dupin*, *Gauss*, *Weingarten*, *Darboux*, and *Bianchi*. Graduate course, both terms, 3 hours per week. Professor Thompson.

121, 122. Analytical Mechanics. Graduate course, both terms, 3 hours per week. Professor Lovett.

VIII. DEPARTMENT OF PHYSICS

PROFESSOR BRACKETT, *Head of the Department;* PROFESSORS MAGIE, LOOMIS, AND McCLENAHAN; DR. ROBINSON, DR. ADAMS, MR. UPSON, MR. HUDSON, AND MR. RENTSCHLER

11. Elementary Experimental Physics. Beginners' course in physics, including classroom and laboratory work. *Gage:* Principles of Physics. For Litt.B., B.S., and C.E. Freshmen who have not offered physics for entrance, both terms, 3 hours per week. For this course a fee of $5 is charged, and a deposit on apparatus of $5 is required. Professor McClenahan, Dr. Robinson, Dr. Adams, Mr. Hudson, or Mr. Rentschler.

21, 22. General Physics. A descriptive course in general physics, including mechanics, illustrated by experiments. Syllabus. Sophomore required for A.B., both terms, 3 hours per week. Professor W. F. Magie.

23. General Physics. Mechanics and Heat. Lectures based on experimental demonstrations. Frequent written recitations. *Carhart:* University Physics. Sophomore required for Litt.B., B.S., and C.E., first term, 3 hours per week. Professor Loomis.

24. General Physics. Magnetism, Electricity, and Light. Lectures based on experimental demonstrations. Frequent written recitations. *Carhart:* University Physics. Sophomore required for Litt.B., B.S., and C.E., second term, 3 hours per week. Professor Loomis.

31 A. General Physics. Mechanics and Heat. Lectures based on experimental demonstrations. Frequent written recitations. *Carhart:* University Physics. Junior course, first term, 3 hours per week. Professor Loomis.

32 A. General Physics. Magnetism, Electricity, and Light. Lectures based on experimental demonstrations. Frequent written recitations. *Carhart:* University Physics. Junior course, second term, 3 hours per week. Professor Loomis.

31, 32 B. Experimental Physics. A course in experimental physics, with lectures and laboratory work. *Ames and Bliss:* Manual of Experiments in Physics. Reference books: *Stewart and Gee*, *Millikan*. Junior course, both terms, 3 hours per week. (Given 1905–1906.) Professor McClenahan and Mr. Upson.

34. Analytical Mechanics. An elementary course in mechanics, dealing with the general principles of mechanics, the movements of rigid bodies, the statics and dynamics of fluids, and the theory of the potential. Lectures. Junior course, second term, 3 hours per week. Prerequisite courses: Mathematics 21, 22, Mathematics 31. Dr. Eisenhart.

41, 42. Experimental Physics. A course in advanced physical measurements, with lectures and laboratory work. Reference books: *Kohlrausch; Mann:* Optics. Senior course, both terms, 3 hours per week. (Given 1905–1906.) Professor McClenahan and Mr. Upson.

43, 44. Theoretical Physics. A course in the elementary mathematical theories of heat, electricity, and light.

Lectures. Senior course, both terms, 3 hours per week. Prerequisite course: Mathematics 21, 22. Professor W. F. Magie.

101, 102. Theory of Electricity. First term, *Duhem:* L'Électricité et le Magnétisme; second term, *Drude:* Die Physik des Aethers. Graduate course, both terms, 3 hours per week. Professor Brackett.

103, 104. Absolute Measurements in Electricity and Magnetism. *Gray.* Graduate course, both terms, 4–6 hours per week. Professor McClenahan.

105, 106. Laboratory Practice in Physics. Graduate course, both terms, 3 hours per week. Professor McClenahan.

108. Theory of Heat. Graduate course, second term, 3 hours per week. Professor Magie.

109. Elasticity. Graduate course, first term, 3 hours per week. Professor Loomis.

110. Chemical Physics. Graduate course, second term, 3 hours per week. Professor Loomis.

111, 112. Theory and Practice of Exact Measurements. Graduate course, both terms, 3 hours per week. Professor Loomis.

113, 114. Research Work in Physics. Graduate course, both terms, number of hours indefinite. Professor Magie and Professor Loomis.

The physical laboratory is open throughout the week to graduate students.

IX. DEPARTMENT OF CHEMISTRY

PROFESSOR NEHER, *Head of the Department;* PROFESSORS CORNWALL, McCAY, PHILLIPS, AND NEHER; DR. McLAUCHLAN, DR. FOSTER, MR. VAN NEST, AND MR. WOODWARD

11, 12. General Inorganic Chemistry. Experimental lectures and recitations on the elements and their compounds. *Newth:* Inorganic Chemistry. Required

course for C.E. Freshmen, both terms, 3 hours per week. Professor McCay, assisted by Mr. Woodward.

21, 22. General Inorganic Chemistry. Experimental lectures on the elements and their compounds, supplemented by laboratory work. Two lectures, and two laboratory exercises of 3 hours each per week. The laboratory work is in part introductory to qualitative analysis. *Newth:* Inorganic Chemistry; *Smith and Keller:* Laboratory Manual. Sophomore elective, both terms, 3 hours per week. Prerequisite to all later courses in chemistry and mineralogy and to the Departments of Chemistry, Biology, and Geology. Professor McCay. Laboratory work, first term, Dr. McLauchlan and Mr. Woodward; second term, Dr. Foster and Mr. Woodward.

24 A. Laboratory work in General Chemistry. Laboratory experiments supplementing lectures on general chemistry. It is the aim of this course to make the student familiar with the handling of apparatus and the general principles of inorganic chemistry. It is also introductory to qualitative analysis. *Smith and Keller:* Laboratory Manual. Reference book: *Richter:* Inorganic Chemistry. Sophomore elective for Litt.B. and B.S., second term, three laboratory periods per week. Prerequisite course: General Chemistry. Prerequisite to all later courses in chemistry and mineralogy and to the Departments of Chemistry, Biology, and Geology. Dr. McLauchlan, Dr. Foster, and Mr. Woodward.

31. Theoretical Chemistry. Theoretical chemistry, including applications to analytical chemistry. Lectures and written recitations. *Dobbin and Walker:* Chemical Theory; *Ostwald:* Outlines of Theoretical Chemistry; *Ostwald:* Scientific Foundations of Analytical Chemistry. Junior course, first term, 3 hours per week.

Prerequisite course: General Inorganic Chemistry. Required in the Department of Chemistry. Professors McCay and Neher.

32. Organic Chemistry. Introductory course devoted to the study of the properties, relationships, synthesis, and structure of the more important classes of acyclic compounds. Two lectures and one laboratory exercise each week. Junior course, second term, 3 hours per week. Prerequisite courses: General Chemistry and Qualitative Analysis. Prerequisite to all later courses in Organic Chemistry. Required in the Departments of Chemistry and Biology. Professor Neher, assisted by Dr. McLauchlan.

33. Qualitative Analysis. The study and practice of the methods for separating and detecting the more common bases and acids and their derivatives, followed by the analysis of simple and complex substances. The course involves about 6 to 8 hours of laboratory work, besides classroom exercises, each week. Junior course, first term, 3 hours per week. Prerequisite course: General Chemistry. Prerequisite to all later courses in chemistry. Required in the Departments of Chemistry and Biology. Professor Neher, assisted by Professor Phillips, Dr. Foster, and Mr. Van Nest.

34. Quantitative Analysis. The theory and practice of typical gravimetric and volumetric analyses, chiefly the analysis of simple salts. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Junior course, second term, 3 hours per week. Prerequisite courses: General Chemistry and Qualitative Analysis. Prerequisite to the Senior courses in Quantitative Analysis and to Organic Chemistry 45. Required in the Department of Chemistry. Professor McCay, assisted by Professor Neher.

41 A. Quantitative Analysis, including complex substances, iron and steel, technical analysis in general. *Fresenius:* Quantitative Analysis. Senior course, required in present chemical course, first term, 6 hours per week. Professor Phillips.

42 A. Quantitative Analysis, advanced inorganic analysis, special methods, volumetric methods, and furnace assay of gold, silver, and lead ores. Reference books: *Fresenius:* Quantitative Chemical Analysis; chemical periodicals. Senior course, required in present chemical course, second term, 6 hours per week. Prerequisite courses: Qualitative and Quantitative Chemical Analysis. Professor Cornwall.

41. Quantitative Analysis. Continuation of Quantitative Analysis 34, involving the analysis of more complex substances, including salts, minerals, and alloys. Laboratory work, supplemented by class exercises. Senior course, first term, 3 hours per week. Prerequisite courses: General Chemistry, Qualitative Analysis, Quantitative Analysis 34. Required in the Department of Chemistry. Professor Phillips, assisted by Professor Cornwall.

42. Quantitative Analysis. Continuation of Quantitative Analysis 41, including special and volumetric methods of analysis. Senior course, second term, 3 hours per week. Prerequisite courses: General Chemistry, Qualitative Analysis, and Quantitative Analysis 34 and 41. Required in the Department of Chemistry. Professor Cornwall, assisted by Professor Phillips.

43 A. Applied Chemistry. Lectures and recitations on typical organic compounds, their production, properties and uses, with applications to the study of poisons, foods, water, etc. (Given 1904–1905 only.) Senior year, first term, 3 hours per week. Prerequisite course: General Chemistry. Professor Cornwall.

43. Organic Chemistry. Continuation of Organic Chemistry 32, devoted in great part to a discussion of the cyclic compounds and including about fifteen lectures dealing with the applications of organic chemistry. Lectures and recitations. Senior course, first term, 3 hours per week. Prerequisite courses: General Chemistry, Qualitative Analysis, and Organic Chemistry 32. Required in the Department of Chemistry. Professor Neher and Professor Cornwall.

44. Physical Chemistry. Lectures with frequent recitations, both oral and written. *Walker:* Introduction to Physical Chemistry. Senior course, second term, 3 hours per week. Prerequisite courses: General Physics and General Chemistry. Professor Loomis.

45 A. Organic Chemistry. Brief general course covering the properties and structure of the most important classes of organic compounds, alipathic and aromatic. Three class exercises per week. *Holleman.* Senior course, first term, 3 hours per week. (Given 1904–1905 only.) Prerequisite courses: General Chemistry and Qualitative Analysis. Professor Neher.

45. Organic Preparations. The preparation and experimental study of typical carbon compounds, both acyclic and cyclic. About 10 hours of laboratory work each week with occasional class exercises. Senior course, open only to students taking Organic Chemistry 43, first term, 3 hours per week. Prerequisite courses: General Chemistry, Qualitative Analysis, Organic Chemistry 32, and Quantitative Analysis 34. Professor Neher, with Dr. McLauchlan.

46. Laboratory work in Physical Chemistry. Molecular weight determination by vapor density, freezing point, and boiling point methods; study of solutions, measuring ionic velocities, solubility, conductivity, etc. Methods for determining heat of neutralization and

velocities of reactions. *Ostwald–Luther:* Physiko-Chemische Messungen. Senior course, open only to students taking Physical Chemistry 44, second term, 3 laboratory exercises per week. Prerequisite courses: Analytical Chemistry; Organic Chemistry. Dr. McLauchlan, with Dr. Foster.

47 A. Organic Preparations. Preparation and experimental study of typical carbon compounds. Eight to ten hours of laboratory work each week with occasional class exercises. *Gattermann.* Reference book: *Beilstein.* Senior course, open only to students taking Organic Chemistry 45A, first term, 3 hours per week. Prerequisite courses: General Chemistry and Qualitative Analysis. Dr. McLauchlan and Dr. Foster.

48 A. Quantitative Analysis. The theory and practice of typical gravimetric and volumetric analysis, chiefly the analysis of simple salts. (Given 1904–1905 only.) Senior course, second term, 3 hours per week. Professor McCay, assisted by Professor Neher.

101, 102. Physical Chemistry. A reading course built on *Nernst's* Theoretical Chemistry. Reference book: *Ostwald:* General Chemistry. Graduate course, both terms, 3 hours per week. Professor Loomis.

X. DEPARTMENT OF GEOLOGY

PROFESSOR SCOTT, *Head of the Department;* PROFESSORS CORNWALL, LIBBEY, SCOTT, AND PHILLIPS; DR. FARR AND MR. VAN INGEN

31. Geology. Beginners' course, covering the subject in outline and designed both for those who intend to pursue the subject further, and for those who desire merely to obtain a general knowledge of the science. *Scott:* Introduction to Geology. Reference book: *Chamberlin and Salisbury:* Geology. Junior course,

first term, 3 hours per week. Prerequisite course: Chemistry or Biology. Prerequisite to the Geology of Senior year. Professor Scott and Dr. Farr.

32. Physical Geology. Advanced course in dynamical and structural geology. Lectures, laboratory exercises, and field work during vacations. *Chamberlin and Salisbury:* Geology. Junior course, second term, 3 hours per week. Prerequisite courses: Geology 31, 33. Prerequisite to the Geology of Senior year. Professor Scott, Dr. Farr, and Mr. van Ingen.

33. Mineralogy. Lectures, recitations, and practice in theoretical, descriptive, and determinative mineralogy; a study especially of rock-forming minerals and the commoner minerals in general. Junior course, first term, 3 hours per week. Prerequisite course: General Chemistry. Prerequisite to advanced Geology. Professor Cornwall.

34. Physical Geography. (*a*) Morphology of the Continents; (*b*) Oceanography. *Guyot:* Physical Geography; *Tarr:* Elementary Physical Geography; *Mill:* Realm of Nature. Junior course, second term, 3 hours per week. Prerequisite to Geology 41 and 43. Professor Libbey.

41, 42. Historical Geology. Advanced course consisting of lectures together with laboratory exercises and field work. *Kayser:* Textbook of Comparative Geology; *Dana:* Manual; *Geikie:* Textbook. Senior course, both terms, 3 hours per week. Prerequisite courses: Geology 31 and 34, Biology 31 and 32. Professor Scott and Mr. van Ingen.

43. Stratigraphical Geology. Lectures, laboratory work, field work, and reports. *Marr:* Principles of Stratigraphical Geology. Reference books: Bulletins of United States Geological Survey; *Dana:* Manual; *Geikie:* Textbook; *Frech:* Lethæa. Senior course,

first term, 3 hours per week. Prerequisite courses: Geology 31, 32, 33, 34; Biology 31 and 32. Mr. van Ingen.

44. Physical Geography. (*c*) Climatology. *Guyot:* Physical Geography; *Davis:* Elementary Meteorology. Senior course, second term, 3 hours per week. Professor Libbey.

45. Invertebrate Paleontology. Lectures and laboratory work on invertebrate fossils and on fossil faunas. *Zittel–Eastman:* Textbook of Paleontology, Vol. I. Senior course, first term, 3 hours per week. Prerequisite courses: Geology 31 and Biology 31. Mr. van Ingen.

46. Vertebrate Paleontology. Lectures and laboratory work on fossil vertebrates. *Smith–Woodward:* Vertebrate Paleontology; *Zittel:* Handbuch der Paleontologie. Senior course, second term, 3 hours per week. Prerequisite courses: Biology 31, 32, and Osteology. Professor Scott and Dr. Farr.

47. Mineralogy, Crystallography, and the Optical Properties of Crystals. *Groth:* Krystallographie; *Rosenbusch:* Mikroskopische Physiographie. Senior course, first term, 3 hours per week. Prerequisite course: Mineralogy 33. Professor Phillips.

48. Mineralogy. Petrographical mineralogy. A thorough study of minerals according to petrographic methods, especially their optical properties; and also the study of rocks. Senior course, second term, 3 hours per week. (Not given 1904–1905.) Prerequisite course: Mineralogy 47. Professor Cornwall.

Summer Course in Field Geology. Juniors who contemplate electing the major part of their Senior studies in the Department of Geology are strongly advised to take part in the optional field work which will be offered during a portion of each summer vacation.

101. Economic Geology. Graduate course, first term, 3 hours per week. Dr. Farr.

XI. DEPARTMENT OF BIOLOGY

PROFESSOR SCOTT, *Head of the Department;* PROFESSORS MACLOSKIE, RANKIN, McCLURE, AND DAHLGREN; AND MR. SILVESTER

31, 32. General Biology. Lectures, laboratory work, and recitations. Discussions of the history, theories, and principles of biology. A study of typical forms illustrating structure and function. A review of the relationship of animals, and exercises on the identification of species and classification. Reference books: *Sedgwick and Wilson, Parker, Jordan and Kellogg.* Junior course, both terms, 3 hours per week. Prerequisite to the subsequent courses in Biology. Professor Rankin.

33. Histology. A study of protoplasm, the cell, and the tissue as they underlie animal and vegetable life. Reference books: *Schnider:* Histology; *Willson:* Cell. Junior course, first term, 3 hours per week. Professor Dahlgren.

34. Botany. Lectures and recitations on the history of botany and the biological principles involved in the physiology and development of plants. Laboratory work on the structure and functions of plants. Exercises on the analysis and classification of the higher groups of plants. Reference books: *Coulter, Stevens, Campbell.* Junior course, second term, 3 hours per week. Prerequisite to the subsequent courses in Senior Biology. Professor Rankin.

41 A. Mammalian Anatomy. Lecture and laboratory course. Lectures on the comparative anatomy of mammals and dissection of the rabbit or cat. *Reigard and Jennings:* Anatomy of the Cat; *Wiedersheim:* Comparative Anatomy of Vertebrates. Senior course,

first term, 3 hours per week. (Given 1904–1905 only.) Professor McClure.

41 B. Comparative Anatomy of Vertebrates. Lecture and laboratory course. Lectures on the comparative anatomy of the organ systems of vertebrates, and dissection of the following forms: *Amphioxus*, the dogfish, the pigeon, and a mammal. *Marshall and Hurst:* Practical Zoölogy. Reference books: *Kingsley:* Vertebrate Zoölogy; *Wiedersheim:* Vergleichende Anatomie der Wirbelthiere. Senior course, first term, 3 hours per week. (Given 1905–1906.) Prerequisite courses: Junior courses in Biology. Professor McClure.

42. Vertebrate Embryology. Lecture and laboratory course. A comparative study of the development of vertebrates. *Hertwig:* Text-book of Embryology. *Minot and Marshall.* Senior course, second term, 3 hours per week. Professor McClure.

43. Comparative Osteology. Ontogeny and comparative structure of the skeleton of the different classes. Exercises in descriptive work. Each student shall prepare a thesis on a skeleton specially assigned for his study. *Flower:* Osteology of the Mammalia. *Reynolds:* The Vertebrate Skeleton. The monographs on the skull, the shoulder-girdle, human anatomy. Senior course, first term, 3 hours per week. Prerequisite course: Junior course in Biology. Professor Macloskie.

44. General Physiology, with comparative treatment of functions in plants and animals, and simple experiments and functional calculations. *Kirke:* Handbook of Physiology, by Halliburton. Reference books: Text-book of Physiology, edited by Schäfer; *Pfeffer:* Physiology of Plants. Senior course, second term, 3 hours per week. Prerequisite course: Junior course in Biology. Professor Macloskie.

101, 102. Cytology, Histogenesis, and Comparative His-

tology. Lectures and the practical study of the cell and its organs. Comparative studies of several tissues. Histogenesis, repair and regeneration of the tissues. Methods of research and thesis work. Graduate course, both terms, 3 hours per week. A fee of $25 is charged for apparatus and reagents. Professor Dahlgren.

103. Systematic Botany of the Vascular Plants. Structure as related to description and classification. Exercises in plant-description, rules of nomenclature, and the characters of the larger families of Angiosperms. *Campbell:* University Text-book of Botany; *Bentham and Hookes:* Genera of Plants; *Engler and Prantl:* Pflanzen-Familien. Graduate course, first term, 3 hours per week. Prerequisite to Biology 104. Professor Macloskie.

104. Systematic Botany of the Vascular Plants; second course. Gymnosperms and the vascular cryptogams; palæo-botany; phytogeography; field-work on the local flora. *Campbell:* University Text-book of Botany; *Britton:* Manual of Flora; *Coulter and Chamberlain:* Gymnosperms and Angiosperms. Graduate course, second term, 3 hours per week. Prerequisite course: Biology 103. Professor Macloskie.

105, 106. The Morphology and Phylogeny of the Organ Systems of Vertebrates. Graduate research course, both terms, 3 hours per week. Professor McClure.

107, 108. Comparative Morphology of the Invertebrates. Graduate course, both terms, 3 hours per week. Professor Rankin.

109. Paleontology of Mammals. Graduate course, first term, 3 hours per week. Professor Scott.

110. Paleontology. The morphology and phylogeny of living and extinct vertebrates other than mammals. Graduate course, second term, 3 hours per week. Dr. Farr.

An advanced graduate course in biology has been established in connection with the geological, zoölogical, botanical and chemical departments, the objects in view being: (1) to foster a spirit of original research; (2) to qualify advanced students to become teachers. This course is open to graduates, also to students presenting diplomas from recognized medical schools.

It is not restricted to students who are candidates for a higher degree, if the applicants possess sufficient elementary knowledge to profit by the instruction.

This graduate course is of a comprehensive and elastic character, and according to the requirements and wishes of different students, includes much laboratory work under the direction of the instructor. At the close of the first term, the student may select a department of special study for his thesis, which must present the results of original work.

COURSES FALLING UNDER DIVISION D, BUT WHICH ARE NOT INCLUDED IN ANY ONE OF THE PRECEDING DEPARTMENTS

11. Personal Hygiene.. Elementary anatomy and physiology; the general care of the body; the principles of exercise, food, clothing, and ventilation; the action of tobacco and alcohol; avoidable diseases and their consequences; the essentials of first aid. Freshman required course; first term, 1 hour per week. General Woodhull.

23. Graphics. Elementary Mechanical Drawing. A beginners' course. *Willson:* Theoretical and Practical Graphics. Elective, open only to B.S. and Litt.B. Sophomores who elect Conic Sections 21A at the same time; first term, 3 hours per week. Prerequisite to Graphics 24. Professor F. N. Willson and Mr. McWilliams.

24. Graphics. Curve Construction, Structure Drawing, Intersections, etc. Lectures. *Willson:* Graphics. *Willson:* Practical Engineering Drawing. Elective course, open only to B.S. and Litt.B. Sophomores, who have elected both Conic Sections 21A and Graphics 23, and who elect Calculus 22 during the second term; second term, 3 hours per week. Professor F. N. Willson and Mr. McWilliams.

31. Elementary Astronomy. Mainly descriptive, exhibiting the leading facts of astronomy and an elementary explanation of the methods by which they are ascertained. Recitations on textbook, with lectures. *Young:* Manual of Astronomy. Junior course, first term, 3 hours per week. Prerequisite to Senior Astronomy. Professor Young.

32. Graphics. Descriptive Geometry. A lecture and textbook course on the fundamental problems of the point, line, and plane, followed by their application to developable, double-curved, and warped surfaces, and including trihedrals and spherical projections, practically applied in the solution of a large number of problems on the drawing-board. *Willson:* Descriptive Geometry. Junior course, first term during 1904–1905, afterward in second term, 3 hours per week. Professor Willson and Mr. McWilliams.

32. Geodesy. Surveying. A general outline of methods of surveying and their uses. *Raymond:* Surveying. Junior course, first term during 1904–1905, afterward in second term, 3 hours per week. Professor Harris.

31. Graphical Statics. Review of general principles of force polygons and of funicular polygons. Extensions to complex problems. Illustrations and drill in the solution of numerous examples drawn from statical and dynamical engineering involving direct stresses, and flexural, shearing, and torsional stress; also moments

or inertia and centers of gravity of irregular figures and fluctuations of energy of machines. Lectures, aided by *Merriman and Jacoby*, Part II. Reference book: *Eddy:* New Constructions in Graphical Statics. Junior course, first term, 3 hours per week. Prerequisite courses: Graphics, Physics. An instructor in Civil Engineering under the direction of Professor McMillan.

48. History of Natural Philosophy. Senior course, second term, 3 hours per week. Professor Brackett. (This course falls in Divisions A and D.)

41, 42. Practical Astronomy (elementary course); determination of time, latitude, and azimuth, work with the equatorial on double stars, variable stars, and the sun. Classroom exercises with the necessary observatory work. Senior course, both terms, 3 hours per week. Professor Reed.

41. Theory of Prime Motors. General relations of the factors of energy and power considered analytically and graphically; reduction of inertia and all resistances to driving point; efficiency; general theory of water motors (rotative); thermal motors:—combustion, calorific powers of fuels, theory of chimney-draft, efficiency of generator. *Rankin:* Steam Engine and Other Motors. Reference books: *Anthony and Brackett; Ripper:* Steam Engine; *Weisbach:* Hydraulic Motors. Senior course, first term, 3 hours per week. Prerequisite courses: Physics, Applied Mechanics [Analytical and Graphical], Chemistry. Prerequisite to Theory of Prime Motors 42. Professor McMillan.

42. Theory of Prime Motors. Recitations and lectures, general equations of thermodynamics [under conditions $p=f$ (v.t.) and $v=\phi$ (p.t.)]; expansion and compression curves of gases and vapors, diagrams of energy —[p.v. and t.e.]; modifying causes of p.v. and t.e. diagrams; compound engines; explosive or combustion

engines:—Otto cycle; compression and expansion curves; combustion engines with carburetting. *Rankine:* Steam Engine and Other Motors. Reference books: *Anthony and Brackett; Ripper; Clerk:* Gas Engine. Senior course, second term, 3 hours per week. Prerequisite courses: Physics, Applied Mechanics (Analytical and Graphical); Chemistry. Professor McMillan.

101, 102. Celestial Mechanics. Lectures and collateral reading. Graduate course, both terms, 3 hours per week. Professor Lovett.

103, 104. Theoretical Astronomy and the Calculation of Orbits. *Watson:* Theoretical Astronomy; *Oppolzer:* Bahnbestimmung; *Klinkerfues:* Theoretische Astronomie. Graduate course, both terms, 3 hours per week. Professor Young.

105, 106. Practical Astronomy, extended course. Special subjects more thoroughly developed than in courses 41, 42. *Chauvenet:* Practical Astronomy. Graduate course, both terms, 3 hours per week. Professor Reed.

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSORS BRACKETT AND McCLENAHAN, AND MR. UPSON

The course in Electrical Engineering is designed to furnish instruction in the theory of electricity and in its application in the arts and industries. The special course of study in electricity occupies two years of graduate work.

REQUIREMENTS FOR ADMISSION

I. Graduates of the University, either in the Academic Department or in the John C. Green School of Science, who have taken satisfactory courses in French and German and in mathematics, including calculus and differential equations, will be admitted to the course in Electrical Engineering without examination.

II. Applicants who are graduates of other institutions must satisfy the professors in charge that they have sufficient knowledge of mathematics, including calculus and differential equations, of physics and chemistry, and of French and German, to enable them to pursue the course with profit.

III. Applicants who are not graduates of any institution may be admitted to the course if they show their fitness for it on examination in mathematics, including calculus, differential equations, analytic mechanics, mechanical drawing and descriptive geometry, general and analytical chemistry, physics, geology, astronomy, English language and literature, French and German.

III. Students not candidates for a degree may be received by special arrangements with the professors in charge.

COURSE OF STUDY

First Year:—The Mathematical Theory of Electricity. *Mascart et Joubert:* L'Électricité et le Magnétisme, with references to *Faraday, Maxwell, Hertz, et als.*

Electrical Measurements. *Gray:* Absolute Measurements in Electricity and Magnetism; *Ewing:* Magnetic Induction in Iron and other metals. Two days a week are left free for elementary electrical measurements, with reference to *Stewart and Gee, Kohlrausch, Gray, Ewing, et als.* Theory of Electro-Motors. *Thompson:* Dynamo-Electric Machinery. Machine Designing.

Strength of Materials, three hours a week; Mechanism, two hours a week, and Theory of Machines, four hours a week for half the year, are taken with the classes in the Civil Engineering Department.

Second Year:—Study of the Physics of the Ether as Related to Electric and Magnetic Phenomena. *Drude:* Physik des Aethers.

Theory and practical applications of alternate currents. *Fleming:* Alternate Current Transformer; *Thompson:* Polyphase Electric Currents; with reference to *Ferraris, Steinmetz, et als.*

Transformer and machine designing.

Collateral lectures on the technical applications of electricity in telegraphy, telephony, electro-metallurgy and electro-chemistry, electric lighting, transmission of power, etc.

Advanced Electrical Measurements and Electrical Testing.

In addition to these courses a meeting is held once a week, at which reports on the current electrical literature are made by the students.

Degree

On completion of this course the student is entitled to apply for the degree of Electrical Engineer. With his application he must present a thesis on some subject connected with electrical science.

JOHN C. GREEN SCHOOL OF SCIENCE FRESHMAN FIRST TERM SCHEDULE, 1904-1905

Chapel at 8 for Mathematical divisions which are even; at 9 for odd numbered divisions. Hygiene takes Mathematical Divisions.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Hygiene I, III Alg. V. κ S1 Trig. VII ε D28 Trig. IX ι D18 Alg XIII η D29	Trig I ε D28 Alg V κ S1 Alg IX η D29 Spher Trig XIII γ (ι) D18 Hygiene VII, XI	Trig I ε D28 Alg III ζ D19 Trig V α S7 Alg IX η D29 Alg XI κ S1 Spher Trig XIII γ (ι) D18	Alg III ζ D19 Trig V α S7 Trig VII ε D28 Trig IX ι D18 Alg XI κ S1 Alg XIII η D 29	Alg I β (ζ) D19 Trig III α S7 Alg VII κ S1 (Sph) Trig XI ι D18 Hygiene V, 1st ½ of IX	Alg I β (ζ) D10 Trig III α S7 Alg VII κ S1 (Sph) Trig XI ι D18 Hygiene XIII, 2d ½ of IX
9	Alg. II η D29 Alg. VI κ S1 Trig. VIII ε D28 Trig. X ι D18 Hygiene IV, XIV	Spher Trig II γ (ι) D18 Alg VI κ S1 Alg X η D29 Trig XIV ε D28 Hygiene VIII, XII	Spher Trig II γ (ι) D18 Alg IV ζ D19 Trig VI α S7 Alg X η D29 Alg XII κ S1 Trig XIV ε D28	Alg II η D29 Alg IV ζ D19 Trig VI α S7 Trig VIII ε D28 Trig X ι D18 Alg XII κ S1	Trig IV α S7 Alg VIII κ S1 Sph Trig XII ι D18 Alg XIV β (ζ) D19 Hygiene VI, 1st ½ of X	Trig IV α S7 Alg VIII κ S1 Sph Trig XII ι D18 Alg XIV β (ζ) D19 Hygiene II, 2d ½ of X
10	B Physics I S23 B Beg French I S3 B Beg German I S31	B Physics I S23 B Beg French I S3 B Beg German I S31	B Physics I S23 B Beg French I S3 B Beg German I S31	E Beg French I S3 E Beg German I S31 B French III D6 B German III D7 B Adv French V S1 B Adv German V D5	E Beg French I S3 E Beg German I S31 B French III D6 B German III D7 B Adv French V S1 B Adv German V D5	E Beg French I S3 E Beg German I S31 B French III D6 B German III D7 B Adv French V S1 B Adv German V D5
11	B & E Physics II S23 E Chemistry Lab B Beg French II S3 B Beg German II S31	B & E Physics II S23 E Chemistry Lab B Beg French II S3 B Beg German II S31	B & E Physics II S23 E Chemistry Lab B Beg French II S3 B Beg German II S31	E Beg French II S3 E Beg German II S31 B French IV D6 B German IV D7	E Beg French II S3 E Beg German II S31 B French IV D6 B German IV D7	E Beg French II S3 E Beg German II S31 B French IV D6 B German IV D7
12	B Latin XI κ S1 B Latin XIII ι D17	B Latin XI κ S1 B Latin XIII ι D17	B Latin XI κ S1 B Latin XIII ι D17	B Latin XI κ 81 B Latin XIII ι D17 E English XV D18 E English XVII D19	B English XI D28 B English XIII D29 E English XV D18 E English XVII D19	B English XI D28 B English XIII D29 E English XV D18 E English XVII D19
1	B Latin XII κ S1 B Latin XIV ι D17 B Latin XVI* ζ D5 E Graphics	B Latin XII κ S1 B Latin XIV ι D17 B Latin XVI* ζ D5 E Graphics	B Latin XII κ S1 B Latin XIV ι D17 B Latin XVI* ζ D5	B Latin XII κ S1 B Latin XIV ι D17 B Latin XVI* ζ D5 E English XVI D18 E English XVIII* D19	B English XII D28 B English XIV D29 B English XX* D19 E English XVI D18 E English XVIII* D19	B English XII D28 B English XIV D29 B English XX* D19 E English XVI D18 E English XVIII* D19
2	E Graphics	E Graphics				

Roman numerals after subjects indicate divisions.
D = Dickinson Hall. S = John C. Green School of Science. Arabic numerals after D or S indicate rooms.

B before the subject indicates that it is taken by candidates for a Bachelor's Degree only.

E before the subject indicates that it is taken by candidates for the degree of Civil Engineer only.

A candidate for a Bachelor's Degree who has offered Physics at entrance, takes only a Beginners' Modern Language at 10 or 11 on Monday, Tuesday, and Wednesday; if he has not offered Physics at entrance, he takes Physics at these hours.

A candidate for the degree of C. E. at 11 a. m. on Monday, Tuesday, and Wednesday takes that one of Physics or Chemistry which he has not offered for entrance: at 10 or 11 a. m. on Thursday, Friday, and Saturday he takes a modern language which he has not offered at entrance.

JOHN C. GREEN SCHOOL OF SCIENCE FRESHMAN SECOND TERM SCHEDULE, 1904-1905

Chapel at 8.45 for even numbered Mathematical Divisions; at 9 for odd numbered Divisions.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Alg V σ S1 Geom XI κ D29 Geom XIII ν D18	Geom I γ D28 Alg V σ S1 Geom XI κ D29 Geom XIII ν D18	Geom I γ D28 Alg III κ D29 Geom VII ρ S7 Alg IX σ S1 Alg XI ϵ D19 Geom XIII ν D18	Geom III γ D28 Geom V ν D18 Geom VII ρ S7 Alg IX σ S1 Alg XI ϵ D19 Alg XIII κ D29	Alg I ϕ (ϵ) D19 Geom III γ D28 Geom V ν D18 Alg VII σ S1 Geom IX ρ S7 Alg XIII κ D29	Alg I ϕ (ϵ) D19 Alg III κ D29 Alg VII σ S1 Geom IX ρ S7
9	Geom II κ D29 Alg VI σ S1 Geom XII γ D28 Geom XIV ν D18	Geom II κ D29 Alg VI σ S1 Geom XII γ D28 Geom XIV ν D18	Alg II ϵ D19 Alg IV κ D29 Geom VIII ρ S7 Alg X σ S1 Geom XII γ D28 Geom XIV ν D18	Alg II ϵ D19 Geom IV γ D28 Geom VI ν D18 Geom VIII ρ S7 Alg X σ S1 Alg XIV κ D29	Geom IV γ D28 Geom VI ν D18 Alg VII σ S1 Geom X ρ S7 Alg XII ϕ (ϵ) D19 Alg XIV κ D29	Alg IV κ D29 Alg VIII σ S1 Geom X ρ S7 Alg XII ϕ (ϵ) D19
10	B Physics I S23 B Beg French I S3 B Beg Ger I D29	B Physics I S23 B Beg French I S3 B Beg Ger I D29	B Physics I S23 B Beg French I S3 B Beg Ger I D29	E Beg French I D12 E Beg Ger I D29 B French III D6 B German III D7 B Adv French V S1 B Adv Ger V D5	E Beg French I D12 E Beg Ger I D29 B French III D6 B German III D7 B Adv French V S1 B Adv German V D5	E Beg French I D12 E Beg German I D29 B French III D6 B German III D7 B Adv French V S1 B Adv German V D5
11	B & E Physics II S23 E Chemistry Lab B Beg French II S3 B Beg Ger II D29	B & E Physics II S23 E Chemistry Lab B Beg French II S3 B Beg Ger II D29	B & E Physics II S23 E Chemistry Lab B Beg French II S3 B Beg Ger II D29	E Beg French II S3 E Beg Ger II D29 B French IV D6 B German IV D7	E Beg French II S3 E Beg Ger II D29 B French IV D6 B German IV D7	E Beg French II S3 E Beg Ger II D29 B French IV D6 B German IV D7
12	B Latin XI S1 B Latin XIII D17 B Latin XV D16 EGeodesy S12	B Latin XI S1 B Latin XIII D17 B Latin XV D16 E Geodesy S12	B Latin XI S1 B Latin XIII D17 B Latin XV D16 E Geodesy S12	B Latin XI S1 B Latin XIII D17 B Latin XV D16 E English XV D18 E English XVII D19	B English XI D28 B English XIII D29 E English XV D18 E English XVII D19	B English XI D28 B English XIII D29 E English XV D18 E English XVII D19
1	B Latin XII D17 B Latin XIV S1 E Geodesy S12	B Latin XII D17 B Latin XIV S1 E Geodesy S12	B Latin XII D17 B Latin XIV S1 E Geodesy S12	B Latin XII D17 B Latin XIV S1 E English XVI D18 E Eng XVIII* D19	B English XII D28 B English XIV D29 E English XVI D18 Eng XVIII D19	B English XII D28 B English XIV D29 E English XVI D18 Eng XVIII D19
2	E Geodesy S12	E Geodesy S12	E Geodesy S12			

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JOHN C. GREEN SCHOOL OF SCIENCE SOPHOMORE FIRST TERM SCHEDULE, 1904–1905

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	B History I D26 B History IV S28 B History VII D13 E Graphics	B History I D26 B History IV S28 B History VII D13 E Graphics	B History I D26 B History IV S28 B History VII D13 E Graphics	Physics I S23	Physics I S23	Physics I S23
9	B Chem I, II Lab B History II D26 B History V S28 B History VIII D13 B French III D6 B German III D7 E Graphics	B Chem I, II Lab B History II D26 B History V S28 B History VIII D13 B French III D6 B German III D7 E Graphics	B Chem I, II Lab B History II D26 B History V S28 B History VIII D13 B French III D6 B German III D7 E Graphics	Physics II S23	Physics II S23	Physics II S23
10	French I D6 German II D7 B History III D13 B History VI S28	French I D6 German II D7 B History III D13 B History VI S28	French I D6 German II D7 B History III D13 B History VI S28	B Latin I D26 B Graphics S E Geodesy S12	B Latin I D26 B Graphics S E Geodesy S12	B Latin I D26 B Graphics S E Geodesy S12
11	German I D7 French II D6 B History IX S28 B History X D26	German I D7 French II D6 B History IX S28 B History X D26	German I D7 French II D6 B History IX S28 B History X D26	B Latin II D26 B Graphics S E Geodesy S12	B Latin II D26 B Graphics S E Geodesy S12	B Latin II D26 B Graphics S E Geodesy S12
12	B Math I γ D18 B Math III ϵ D28 B Math V η D19 E Math I δ S7	B Math I γ D18 B Math III ϵ D28 B Math V η D19 E Math I δ S7	B Math I γ D18 B Math III ϵ D28 B Math V η D19 E Math I δ S7	B Logic I, II D8 B Logic III, IV D8 E Math I δ S7	B Logic I D8 B Logic III D4 E Math I δ S7	B Logic I, II D8 B Logic III, IV D8
1	B Math II ϵ D28 B Math IV η D19 B Math VI γ D18 E Math II δ S7	B Math II ϵ D28 B Math IV η D19 B Math VI γ D18 E Math II δ S7	B Math II ϵ D28 B Math IV η D19 B Math VI γ D18 E Math II δ S7	E Math II δ S7	B Logic II D8 B Logic IV D4 E Math II δ S7	
2–6				E Geodesy		

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JOHN C. GREEN SCHOOL OF SCIENCE SOPHOMORE SECOND TERM SCHEDULE, 1904-1905

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	B Eng I, II, III S10 E Graphics	B English I S10 B English II S28 B English III S31 E Graphics	B English I S10 B English II S28 B English III S31 E Graphics	Physics I S23	Physics I S23	Physics I S23
9	B Chemistry I, II C B Eng IV, V, VI S10 B French III D6 B German III D7 E Graphics	B Chemistry I, II C B English IV S10 B English V S28 B English VI S31 B French III D6 B German III D7 E Graphics	B Chemistry I, II C B English IV S10 B English V S28 B English VI S31 B French III D6 B German III D7 E Graphics	Physics II S23	Physics II S23	Physics II S23
10	B French I D6 B German II D7 B Eng VII, VIII, IX S10 E Mineralogy I	B French I D6 B German II D7 B English VII S10 B English VIII S28 B English IX S31 E Mineralogy I	B French I D6 B German II D7 B English VII S10 B English VIII S28 B English IX S31 E Mineralogy I	B Latin I D14 E Geodesy S12 B Graphics	B Latin I D14 E Geodesy S12 B Graphics	B Latin I D14 E Geodesy S12 B Graphics
11	B German I D7 B French II D6 E Math II λ S7 E Mineralogy I	B German I D7 B French II D6 E Math II λ S7 E Mineralogy I	B German I D7 B French II D6 E Math II λ S7 E Mineralogy I	B Latin II D14 E Geodesy S12 B Graphics	B Latin II D14 E Geodesy S12 B Graphics	B Latin II D14 E Geodesy S12 B Graphics
12	B Math I τ D18 B Math III ν D19 E Math I λ S7	B Math I τ D18 B Math III ν D19 E Math I λ S7	B Math I τ D18 B Math III ν D19 E Math I λ S7	B Psych I τ D8 B Psych III φ D28 E Geodesy S12	B Psych I-IV τ D8 E Geodesy S12	B Psych I-IV τD8
1	B Math II κ D19 B Math IV τ D18 E Mineralogy II	B Math II κ D19 B Math IV τ D18 E Mineralogy II	B Math II κ D19 B Math IV τ D18 E Mineralogy II	B Psych II φ D28 B Psych IV τ D8 E Geodesy S12	E Geodesy S 12	
2	E Mineralogy II	E Mineralogy II	E Mineralogy II	E Geodesy S12	E Geodesy S12	

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JOHN C. GREEN SCHOOL OF SCIENCE JUNIOR FIRST TERM SCHEDULE, 1904–1905

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	B Italian, 35 D5 E Geodesy S12	B Italian, 35 D5 E Geodesy S12	B Italian, 35 D5 E Geodesy S12	Physics, 31 S23 B Adv Psych, 33 D8 B French, 31 D6 B Graphics S	Physics, 31 S23 B Adv Psych, 33 D8 B French, 31 D6 B Graphics S	Physics, 31 S23 B Adv Psych, 33 D8 B French, 31 D6 B Graphics S
9	B Jurisprud, 33 D21 B Biology, 31 S25 E Geodesy S12	B Jurisprud, 33 D21 B Biology, 31 S25 E Geodesy S12	B Jurisprud, 33 D21 B Biology, 31 S25 E Geodesy S12	B History, 31 S10 B German, 31 D7 B Graphics S	B History, 31 S10 B German, 31 D7 B Graphics S	B History, 31 S10 B German, 31 D7 B Graphics S
10	B Art & Arch, 31 B Solid Geom, 31 D18 E Graphics	B Art & Arch, 31 B Solid Geom, 31 D18 E Graphics	B Art & Arch, 31 B Solid Geom, 31 D18 E Graphics	B Th Chem, 31 C B Diff Equa, 33 D10 B Graph Stat, 31 S E Ap Mech (S) S28	B Th Chem, 31 C B Diff Equa, 33 D19 B Graph Stat, 31 S E Ap Mech (Ins) S28	B Th Chem, 31 C B Diff Equa, 33 D19 B Graph Stat, 31 S E Ap Mech (Ins) S28
11	B Engl Phil, 33 D2 B Mineralogy, 31 C E Graphics	B Engl Phil, 33 D2 B Mineralogy, 31 C E Graphics	B Engl Phil, 33 D2 B Mineralogy, 31 C E Graphics	B Engl Lit, 31 D2 B Astronomy, 31 S25 B Graph Stat, 31 S E Ap Mech (S) S28	B Engl Lit, 31 D2 B Astron, 31 S25 B Graph Stat, 31 S E Ap Mech (Ins) S28	B Engl Lit, 31 D2 B Astron, 31 S25 B Graph Stat, 31 S E Ap Mech (Ins) S28
12	B Hist Phil, 31 D8 B Spanish, 37 D6 E Ap Mech (S) S12	B Hist Phil, 31 D8 B Spanish, 37 D6 E Ap Mech (S) S12	B Hist Phil, 31 D8 B Spanish, 37 D6 E Ap Mech (S) S12	B Economics, 35 D2 B Geodesy, 31 S12 E Astronomy Obs	B Economics, 35 D2 B Geodesy, 31 S12 E Astronomy Obs	B Economics, 35 D2 B Geodesy, 31 S12
2–6	B Qual Anal, 33 C E Ap Mech (S) S12	B Qual Anal, 33 C E Ap Mech (S) S12	B Qual Anal, 33 C E Ap Mech (S) S12	B Latin, 33 D14 B Histology, 33 Lab E Astronomy Obs	B Latin, 33 D14 B Histology, 33 Lab E Astronomy Obs	B Latin, 33 D2 B Histology, 33 Lab
	E Geodesy S12	E Geodesy S12		E Astronomy Obs	E Astronomy Obs	

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Arabic numerals after subjects indicate the courses given in the Statement of Courses.
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JOHN C. GREEN SCHOOL OF SCIENCE JUNIOR SECOND TERM SCHEDULE, 1904–1905

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	B Italian 36 D5	B Italian 36 D5 E Geodesy	B Italian 36 D5 E Geodesy	Physics 32 S23 B Adv Logic 34 D4 B French 32 D6	Physics 32 S23 B Adv Logic 34 D4 B French 32 D6	Physics 32 S23 B Adv Logic 34 D4 B French 32 D6
9	B Cont Gov 34 D21 B Biology 32 S25	B Const Gov 34 D21 B Biology 32 S25 E Geodesy	B Const Gov 34 D21 B Biology 32 S25 E Geodesy	B History 32 S10 B German 32 D7	B History 32 S10 B German 32 D7	B History 32 S10 B German 32 D7
10	B Art & Arc 32 S25 B Geometry 32 D18 E Graphics	B Art & Arc 32 S25 B Geometry 32 D18 E Graphics	B Art & Arc 32 S25 B Geometry 32 D18 E Graphics	B Chem 32 C9 B An Mech 34 D19 E Ap Mech 6	B Chem 32 C9 B An Mech 34 D19 E Geology N	B Chem 32 C9 B An Mech 34 D19 E Geology N
11	B Eng Ph D2, 4 & 5 B Phys Geog 34 N E Graphics	B Eng Ph D2, 4 & 5 B Phys Geog 34 N E Graphics	B Eng Ph D2, 4 & 5 B Phys Geog 34 N E Graphics	B English Lit 32 D2 E Ap Mech 6	B English Lit 32 D2	B English Lit 32 D2
12	B Hist Phil 32 D8 B Spanish 38 D7	B Hist Phil 32 D8 B Spanish 38 D1 E Ap Mech 6	B Hist Phil 32 D8 B Spanish 38 D1 E Ap Mech 6	B Economics 36 D2 B Geology 32 N E Astronomy Obs	B Economics 36 D2 B Geology 32 N E Astronomy Obs	B Economics 36 D2 B Geology 32 N
1	B Quan Anal 34 C	B Quan Anal 34 C E Ap Mech 6	B Quan Anal 34 C E Ap Mech 6	B Latin 34 D14 B Botany 34 S25 E Astronomy Obs	B Latin 34 D14 B Botany 34 S25 E Astronomy Obs	B Latin 34 D14 B Botany 34 S25
2	E Geodesy	E Geodesy		E Astronomy Obs	E Astronomy Obs	

Arabic numerals after subjects indicate the courses as given in the statement of courses.
D=Dickinson Hall. S=John C. Green School of Science. Arabic numerals after D or S indicate rooms.

JOHN C. GREEN SCHOOL OF SCIENCE SENIOR FIRST TERM SCHEDULE, 1904–1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	B Spanish, 47 D6 B Paleon, 45 N B Math, 41 S9 B Chemistry, 45A C	B Spanish, 47 D6 B Paleon, 45 N B Math, 41 S9 B Chemistry, 45A C E App Mech (s) S13	B Spanish, 47 D6 B Paleon, 45 N B Math, 41 S9 B Chemistry, 45A C E App Mech (s) S13	B Geology, 41 N B Exp Psych 43 Lab B German, 41 D7 E App Mech, (s) S13	B Geology, 41 N B Exp Psych 43 Lab B German, 41 D7 E App Mech, (s) S13	B Geology, 41 N B Exp Psych,43 Lab B German, 41 D7 E App Mech, (s) S13
9	B Biology, 41 Lab B Out Phil, 41 D4 B English S10 B Rom Law, 49 D16	B Biology, 41 Lab B Out Phil, 41 D4 B English, 41 S10 B Rom Law, 49 D16 E App Mech (s) S13	B Biology, 41 Lab B Out Phil, 41 D4 B English, 41 S10 B Rom Law, 49 D16 E App Mech (s) S13	B Physics, 43 Lab B Econ, 49 D14 B French Lit, 41 D2 B Biology, 43 S25 E App Mech (s) S13	B Physics, 43 Lab B Econ, 49 D14 B French Lit, 41 D2 B Biology, 43 S25 E App Mech, (s) S13	B Physics, 43 Lab B Econ, 49 D14 B French Lit, 41 D2 B Biology, 43 S25 E App Mech, (s) S13
10	B Chemistry, 43A C B Old French 43 S1 E Geodesy S12	B Chemistry, 43A C B Old French, 43 S1 E Geodesy S12	B Chemistry, 43A C B Old French, 43 S1 E App Mech (M) S13	B Art & Arch, 43 B English, 43 D21 B Sanskrit E App Mech (M) S13	B Art & Arch, 43 B English, 43 D21 B Sanskrit E App Mech, (M) S13	B Art & Arch, 43 B English, 43 D21 B Sanskrit E Graphics S
11	B Ethics, 45 D8 B Latin, 45 D14 B Politics, 47 S10 E Geodesy S12	B Ethics, 45 D8 B Latin, 45 D14 B Politics, 47 S10 E Geodesy S12	B Ethics, 45 D8 B Latin, 45 D14 B Politics, 47 S10 E App Mech (M) S13	B Math, 43 D19 B Amer Hist, 43 S10 E App Mech (M) S13	B Math, 43 D19 B Amer Hist, 43 S10 E App Mech (M) S13	B Math, 43 D19 B Amer Hist, 43 S10 E Graphics S
12	B Mineralogy, 47 C B Art & Arch, 41 B German, 43 S31 B History, 41 D21 E App Mech (M) S13	B Mineralogy, 47 C B Art & Arch, 41 B German, 43 S31 B History, 41 D21 E App Mech (M) S13	B Mineralogy, 47 C B Art & Arch, 41 B German, 43 S31 B History, 41 D21 Th Pr Mot, 41 S13	B Politics. 45 S10 B Latin, 47 D14 Th Pr Mot, 41 S13	B Politics, 45 S10 B Latin, 47 D14 Th Pr Mot, 41 S13	B Politics, 45 S10 B Latin, 47 D14
1	B Italian, 45 D7 B Physics, 41 Lab E App Mech (M) S13	B Italian, 45 D7 B Physics, 41 Lab E App Mech (M) S13	B Italian, 45 D7 B Physics, 41 Lab Th Pr Mot, 41 S13	B Geodesy, 41 N B Prac Ast, 41 Obs Th Pr Mot, 41 S13	B Geology, 41 N B Prac Ast, 41 Obs Th Pr Mot, 41 S13	B Geology, 41 N B Prac Ast, 41 Obs
2–6	B Chem, 41A C	B Chem, 41A C	B Chem, 41A C	B Chem, 41A C B Chem, 47A C B Prac Ast, 41 Obs	B Chem, 41A C B Chem, 47A C B Prac Ast, 41 Obs	B Chem, 41A C B Chem, 47A C B Prac Ast, 41 Obs

B before a subject indicates that it is for candidates for a Bachelor's Degree only.
E before a subject indicates that it is for candidates for the degree of Civil Engineering only.
Arabic numerals after subjects indicate the courses given in the Statement of Courses.
D = Dickinson Hall. S = John C. Green School of Science. Arabic numerals after D or S indicate rooms.

JOHN C. GREEN SCHOOL OF SCIENCE SENIOR SECOND TERM SCHEDULE, 1904-1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	B Spanish 48 D7 B Math 42 S6 B German 44 D6	B Spanish 48 D7 B Math 42 S6 B German 44 D6 E Constr 4 S13	B Spanish 48 D7 B Math 42 S6 B German 44 D6 E Constr 4 S13	B Geology 42 N B German 42 D7 E Constr 2 S13	B Geology 42 N B German 42 D7 E Constr 2 S13	B Geology 42 N B German 42 D7 E Constr 10 S13
9	B Biology 42 L B English 42 D2 B Rom Law 50 D16	B Biology 42 L B English 42 D2 B Rom Law 50 D16 E Constr 4 D13	B Biology 42 L B English 42 D2 B Rom Law 50 D16 E Constr 4 D13	B Physics 44 L B Economics 50 D8 B French Lit 42 D2 B Biology 44 S25 E Constr 2 S13	B Physics 44 L B Economics 50 D8 B French Lat 42 D2 B Biology 44 S25 E Constr 2 S13	B Physics 44 L B Economics 50 D8 B French Lit 42 D2 B Biology 44 S25 E Constr 10 S13
10	B Paleont 46 N B Old French 44 D5 B Chem 44A C9 Pr Mot S13 B History 42 D2	B Paleont 46 N B Old French 44 D5 B Chem 44A C9 Pr Mot S13 B History 42 D2	B Paleont 46 N B Old French 44 D5 B Chem 44A C9 Pr Mot S13 B History 42 D2	(B Art & Arc 44) B English 44 D2 B Philos 44 D4 B Sanskrit E App Mech 12 S13	B Art & Arc 44 B English 44 D2 B Philos 44 D4 B Sanskrit E App Mech 12 S13	(B Art & Arc 44) B English 44 D2 B Philos 44 D4 B Sanskrit E Constr 10 S13
11	B Ethics 46 D8 B Latin 46 D14 B Politics 48 S10 Pr Mot S13	B Ethics 46 D8 B Latin 46 D14 B Politics 48 S10 Pr Mot D13	B Ethics 46 D8 B Latin 46 D14 B Politics 48 S10 Pr Mot S13	B Math 44 D19 B Am Hist 44 D21 B Phys Chem 44 S6 E App Mech 12 S13	B Math 44 D19 B Am Hist 44 D21 B Phys Chem 44 S6 E App Mech 12 S13	B Math 44 D19 B Am Hist 44 D21 B Phys Chem 44 S6 E Constr 10 S13
12	B Art & Arc 42 S25 B Phys Geog 44 N B Hist Phil 42 D8 E Graphics	B Art & Arc 42 S25 B Phys Geog 44 N B Hist Phil 42 D8 E Constr 6 S13	B Art & Arc 42 S25 B Phys Geog 44 N B Hist Phil 42 D8 E Constr 6 S13	B Politics 46 S10 B Latin 48 D14 B Hist Nat Phil D2 E Constr 8 S13	B Politics 46 S10 B Latin 48 D14 B Hist Nat Phil D2 E Constr 8 S13	B Politics 46 S10 B Latin 48 D14 B Hist Nat Phil D2
1	B Italian 46 D7 B Physics 42 S23 B Chemistry 48A C E Graphics	B Italian 46 D7 B Physics 42 S23 B Chemistry 48A C E Constr 6 S13	B Italian 46 D7 B Physics 42 S23 B Chemistry 48A C E Constr 6 S13	B Pract Astr 42 Obs E Constr 8 S13	B Pract Astr 42 Obs E Constr 8 S13	B Pract Astr 42 Obs
2	B Chemistry 42A C	B Chemistry 42A C	B Chemistry 42A C	B Chem 42A C B Chem 46 C B Pract Astr 42 Obs	B Chem 42A C B Chem 46 C B Pract Astr 42 Obs	B Chem 42A C B Chem 46 C BPract Astr 42 Obs

Arabic numerals after subjects indicate the courses as given in the Statements of Courses.
D=Dickinson Hall. S=John C. Green School of Science. Arabic numerals after D or S indicate rooms.

THE GRADUATE SCHOOL

The affairs of the Graduate School are administered by a Dean, with an Advisory Committee of the University Faculty. The committee consists of the President and Dean, *ex-officio*, and Professors Brackett, Scott, Magie, Fine, Hibben, Harper, and Thompson. All inquiries should be addressed to Professor West, Dean of the Graduate School.

Immediately after the beginning of the Academic year, students entering the Graduate School, who are graduates of any approved institution other than Princeton University, or who, if graduates of Princeton University, have afterwards matriculated in some other university, meet according to announcement for matriculation.

Only graduates of Princeton and of other universities maintaining a similar standard for the Bachelor's degree may be enrolled on their diplomas as graduate students.

Graduates of other universities and colleges may be admitted as graduate students only upon examination. They may, however, on presentation of their diplomas and other satisfactory credentials, be enrolled without examination as undergraduates in the class to enrolment in which their proficiency entitles them.

Each graduate student attending instruction regularly, and passing the examinations, is entitled to a certificate stating what he has done, signed by the President in behalf of the University.

Students by pursuing these courses may also qualify themselves for the degree of Master of Arts. The degree

of Doctor of Philosophy is conferred according to the regulations prescribed under the heading "Degrees."

All graduate students, except Fellows, shall pay the sum of five dollars for each course each term. The total maximum charge is not to exceed twenty dollars a term. Undergraduate courses of lectures or instruction are also open to graduate students, but undergraduates are not admitted to the graduate courses. Extra charges will be made for courses in analytical chemistry, the amount to depend on the nature of the course pursued.

All applications for enrolment should be made to the Dean of the Graduate School.

GRADUATE COURSES OF INSTRUCTION

The courses which are open to *graduate students only* are detailed in the list of courses offered in each department and are as follows:

PHILOSOPHY

101, I. Negative Theories of Knowledge. Lectures and readings. First term, 3 hours per week. (Given 1904–1905.) Professor Ormond.

101, II. Kant, Lotze, and Contemporaneous Philosophy. Lectures, reading, and conferences. First term, 3 hours per week. (Given 1905–1906.) Professor Ormond.

102, I. Encyclopedia of Philosophy. Lectures and readings. Second term, 3 hours per week. (Given 1904–1905.) Professor Ormond.

102, II. Philosophical Aspects of Evolution and Heredity. Second term, 3 hours per week. (Given 1905–1906.) Professor Ormond.

103, 104. Experimental Psychology. Laboratory course, consisting largely in research work, with weekly con-

ference for original reports; open to all qualified graduate students. Both terms, 3 hours per week. Professor Warren.

105, 106. Seminary in General Philosophy. Topic for the year: Post-Kantian Idealism. Topic for 1905–1906: Hobbes and Spinoza. Conducted by reading, theses, and discussions. Both terms. Professor Ormond.

107, 108. Psychological Seminary. Topic to be determined in consultation with class; open to graduate students who satisfy the professor of their competence; limited to twelve men studying for advanced degrees. Not given for less than five men. Both terms. Professor Warren or Professor Thilly.

109. Theory of Mental Measurements. First term, 3 hours per week. Professor Warren.

111, 112. Reading in German Philosophy. Both terms, 3 hours per week. *Hegel's* Logik. Professor Hibben.

113, 114. Contemporary English Ethics. Seminary course, both terms, 3 hours per week. Professor G. S. Patton.

115. The Philosophy of the Mind. The problem of consciousness in its metaphysical and epistemological bearings. First term, 3 hours per week. (Given 1905–1906.) Professor Thilly.

HISTORY, POLITICS, AND ECONOMICS

108, I. The Private Law Orations of Cicero (Classics 108, I). Second term, 3 hours per week, alternating with 108, II. Professor Westcott.

108, II. Sources of Early Roman Law (Classics 108, II). Second term, 3 hours per week, alternating with 108, I. Professor Westcott.

109. Genesis of Industrial Order. An ethnological study of industry, including the earliest forms of the division of labor, the domestication of animals and plants, the rise of slavery, the use of money, etc. The class will

meet in the Seminary room and the writing and criticism of theses will constitute the basis of the course. First term, 3 hours per week. Professor Wyckoff.

110. Advanced Economic Theory. An exposition of economic theory, historical and dogmatic. Seminary course for competent graduates, designed to supplement and continue course 109. Hours to be arranged with the instructor. Second term, 3 hours per week. Professor Daniels.

ART AND ARCHÆOLOGY

101. Greek Architecture. This course will consist of a critical study of *Vitruvious'* De Architectura. First term, 3 hours per week. Professor Marquand.

102. Pausanias. This course will consist of a critical study of *Frazer's* Commentary on Pausanias' Description of Greece. Second term, 3 hours per week. Professor Marquand.

103. Early Christian Antiquities, from the beginning of Christianity to its triumph under Constantine, with especial study of the Roman Catacombs and their art, the first church buildings and the origin of liturgy. First term, 3 hours per week. (Not given 1904–1905.) Professor Frothingham.

104. Christian Antiquities, from the fourth century to Charlemagne; the development of church buildings and liturgy, as well as of fresco and mosaic painting and other forms of art, especially with reference to art themes used for the instruction of the masses by the Church. Second term, 3 hours per week. (Not given 1904–1905.) Professor Frothingham.

105, 106. Christian Architecture. A practical study of ecclesiastical architecture, from the fourth century to the twelfth, including the subjects of the construction, design, and details of the early Christian, Byzantine,

and Romanesque periods. Requires elementary knowledge of the history of Christian art and Mediæval history, and ability to read French. Both terms, 3 hours per week. (Not given 1904–1905.) Mr. Butler.

SEMITICS

101, 102. Advanced Arabic. Interpretation of the more difficult texts; reading of manuscripts and inscriptions. *Noeldeke-Müller:* Delectus Veterum Carminum Arabicorum; *Imâd ad-Dîn:* Conquest of Syria and Palestine by Saladin (Ed. *Landberg*). Both terms, 3 hours per week. (Not given 1904–1905.) Dr. Littmann.

103, 104. Ethiopic. Outline of the history of Ethiopic literature, with interpretation of selections from different works, and reading of manuscripts. Both terms, 3 hours per week. (Not given 1904–1905.) Dr. Littmann.

105. Semitic Epigraphy. Interpretation of Phœnician, Palmyræan, Nabatæan, or south Arabian inscriptions. *Lidzbarski:* Handbuch der Nordsemitischen Epigraphik; *Hommel:* Südarabische Chrestomathie First term, 3 hours per week. (Not given 1904–1905.) Dr. Littmann.

106. Advanced Syriac. Interpretation of a text from *Land:* Anecdota Syriaca. Second term, 3 hours per week. (Not given 1904–1905.) Dr. Littmann.

Courses on other Semitic languages and their literature, and in addition on Coptic and Turkish, may be given if desired.

INDO-IRANIAN

107, 108. Advanced Sanskrit. Reading of classical and Vedic Sanskrit in the first and second terms. *Windisch:* Zwölf Hymnen des Rig Veda; or *Peterson:* Handbook to the Study of the Rig Veda, Part II.

Both terms, 3 hours per week. Professor Winans or Professor Robbins.

109, 110. Avesta. Grammar and reading of selected texts. *Jackson:* Avesta Grammar, Avesta Reader, first series; *Geldner:* Avesta; *Mills:* Gâthâs. Both terms, 3 hours per week. Professor Robbins.

CLASSICS

101. Aristophanes. Selected plays. First term, 3 hours per week. Professor Robbins.

102. Historical Latin and Greek Grammar. Phonology and morphology. Lectures and readings. *Brugmann, Hirt, Meyer, Stolz,* and *Lindsay.* Second term, 3 hours per week. Professor Robbins.

103. Greek Inscriptions. Lectures will be given on the history of classical epigraphy, the alphabet, and the methods of interpretation. Practical exercises will be held in reading from casts and squeezes. Inscriptions of special historical value, chiefly those of the fifth century, will be interpreted and discussed. First term, 3 hours per week. Professor Prentice.

104. Thucydides. Critical study of the history of Thucydides. Second term, 3 hours per week. Professor Winans.

105, 106. Mediæval Latin Literature. A course involving the extensive reading of representative writers and of the history of Mediæval Latin literature. Both terms, 3 hours per week. Dean West.

108, 1. (Hist., Politics, and Econom., 108, 1.) Law Orations of Cicero, with a study of the legal institutions of his time. Second term, 3 hours per week, alternating with 108, 11. Professor Westcott.

108, 11. (Hist., Politics, and Econom., 108, 11.) Sources of Early Roman Law. *Bruns:* Fontes Juris Romani Antiqui; *Lindsay:* Latin Inscriptions. Second term,

3 hours per week, alternating with 108, 1. Professor Westcott.

110. Tacitus. Reading of the whole of the author's works so far as not previously read. Study of date, sources, method, purpose, etc., of each work, and of the development of the author's style in his successive periods. Results of study to be embodied in weekly papers to be handed in and discussed. Second term, 3 hours per week. Professor Westcott.

112. Introduction to the Study of Mythology. Lectures and theses. Second term, 3 hours per week. (Not given 1904–1905.) Professor Carter.

113. The Remains of Ancient Rome. A study of the topography and monuments of the ancient city with special reference to their historical and literary importance. First term, 3 hours per week. Professor Showerman.

114. Palæography and Text-Criticism. Reading of Latin manuscripts, search for material, collation, formation of genealogies, and construction of text. Lectures and direction leading to theses. Second term, 3 hours per week. Dr. Richardson.

ENGLISH

101, 102. Shakespeare's Contemporaries and Successors in Elizabethan Drama. Both terms, 3 hours per week. Professor Parrott.

103. Old and Middle English Dialects. A study of the phonology and accidence of the chief dialects of old and middle English, from the eighth to the thirteenth century, illustrated by copious readings from the literature of the period. First term, 3 hours per week. Dr. Craig.

MODERN LANGUAGES

101. Middle High German. Grammar, lectures, and reading. The course is designed both to furnish a foundation for the historical study of modern German and to serve as an introduction to the study of Germanic philology. Proficiency in modern German is required. *Paul:* Mittelhochdeutsche Grammatik; *Michels:* Mittelhochdeutsches Elementarbuch; *Weinhold:* Mittelhochdeutsches Lesebuch. First term, 3 hours per week. Professor Hoskins.

102. Old High German. Grammar, reading, and lectures on the historical development of the German language. Knowledge of modern German and middle high German required, and some knowledge of Gothic useful. *Braune:* Althochdeutsches Lesebuch; *Braune:* Althochdeutsches Grammatik. Second term, 3 hours per week. Professor Hoskins.

103. Historical German Grammar. Introduction, phonology, morphology. Requires a knowledge of Gothic, old and middle high German. Lectures. References to *Paul:* Grundriss der Germanischen Philologie; *Streitberg:* Urgermanische Grammatik. First term, 3 hours per week. Professor Hoskins.

104. Old Icelandic. Grammar, lectures, and reading. For advanced students. *Noreen:* Altisländische und Altnorwegische Grammatik; *Kahle:* Altisländisches Elementarbuch; *Ranisch:* Die Volsungasaga. Second term, 3 hours per week. Professor Hoskins.

101, 102. Molière. A study of Molière's life, evolution, social satire, influence, and imitators. Both terms, 3 hours per week. Professor A. G. Cameron.

103, 104. Old French Philology. Lectures on old French etymology, morphology, and syntax. Both terms, 3 hours per week. Professor Lewis.

MATHEMATICS

101. Theory of Substitutions. Elementary theory of substitutions, of groups of substitutions and rotations. Application of the group theory to the solution of algebraic equations. *Netto:* Bolza's Paper in the American Journal of Mathematics. First term, 3 hours per week. Prerequisite course: Advanced Algebra. Dr. Gillespie.

102. The Invariant Theory of Binary Quantics developed by the Symbolic Notation of Clebsch. Reference books: *Clebsch* and *Gordan.* Second term, 3 hours per week. Prerequisite course: Advanced Algebra. Dr. Gillespie.

103. Theory of Functions of a Complex Variable. Advanced course. First term, 3 hours per week. Dean Fine.

104. Theory of Ordinary Differential Equations. Second term, 3 hours per week. Dean Fine.

106. Elliptic Functions. Second term, 3 hours per week. Professor Thompson.

107. Calculus of Variations. Lectures with illustrative problems. Topics: necessary conditions, boundary conditions, construction of fields, *Weierstrass'* E-function, sufficient conditions, isoperimetric problems, generalizations, relation to differential equations and function-theory. Reference books: *Kneser, Bolza;* lectures of *Schwarz* and *Zermelo.* First term, 3 hours per week. Dr. Kellogg.

108. Partial Differential Equations, with special regard to the modern methods of determining solutions by boundary conditions. Second term, 3 hours per week. Dr. Kellogg.

109, 110. Lie's Transformation Groups, with applications to differential equations and geometry. Both terms, 3 hours per week. Professor Lovett.

111. Infinitesimal Geometry. First term, 3 hours per week. Professor Thompson.

112. Infinitesimal Geometry; either (*a*) Finite and Infinitesimal Deformations of Surfaces, or (*b*) Congruences and Complexes. Second term, 3 hours per week. Dr. Eisenhart.

113, 114. Special Topics in Metrical Geometry. Historical readings of some of the memoirs of *Monge*, *Dupin*, *Gauss*, *Weingarten*, *Darboux*, and *Bianchi*. Both terms, 3 hours per week. Professor Thompson.

121, 122. Analytical Mechanics. Both terms, 3 hours per week. Professor Lovett.

ASTRONOMY

101, 102. Celestial Mechanics. Lectures and collateral reading. Both terms, 3 hours per week. Professor Lovett.

103, 104. Theoretical Astronomy and the Calculation of Orbits. *Watson:* Theoretical Astronomy; *Oppolzer:* Bahnbestimmung; *Klinkerfues:* Theoretische Astronomie. Both terms, 3 hours per week. Professor Young.

105, 106. Practical Astronomy, extended course. Special subjects more thoroughly developed than in courses 41, 42. *Chauvenet:* Practical Astronomy. Both terms, 3 hours per week. Professor Reed.

PHYSICS

101, 102. Theory of Electricity. First term, *Duhem:* L'Électricité et le Magnétisme; second term, *Drude:* Die Physik des Aethers. Both terms, 3 hours per week. Professor Brackett.

103, 104. Absolute Measurements in Electricity and Magnetism. *Gray.* Both terms, 4–6 hours per week. Professor McClenahan.

105, 106. Laboratory Practice in Physics. Both terms, 3 hours per week. Professor McClenahan.

108. Theory of Heat. Second term, 3 hours per week. Professor Magie.

109. Elasticity. First term, 3 hours per week. Professor Loomis.

110. Chemical Physics. Second term, 3 hours per week. Professor Loomis.

111, 112. Theory and Practice of Exact Measurements. Both terms, 3 hours per week. Professor Loomis.

113, 114. Research Work in Physics. Both terms, number of hours indefinite. Professor Magie and Professor Loomis.

The physical laboratory is open throughout the week to graduate students.

CHEMISTRY

101, 102. Physical Chemistry. A reading course built on *Nernst's* Theoretical Chemistry. Reference book: *Ostwald:* General Chemistry. Both terms, 3 hours per week. Professor Loomis.

GEOLOGY

101. Economic Geology. First term, 3 hours per week. Dr. Farr.

BIOLOGY

101, 102. Cytology, Histogenesis, and Comparative Histology. Lectures and the practical study of the cell and its organs. Comparative studies of several tissues. Histogenesis, repair and regeneration of the tissues. Methods of research and thesis work. Both terms, 3 hours per week. A fee of $25 is charged for apparatus and reagents. Professor Dahlgren.

103. Systematic Botany of the Vascular Plants. Structure as related to description and classification. Exercises in plant-description, rules of nomenclature, and the characters of the larger families of Angiosperms. *Campbell:* University Text-book of Botany; *Bentham and Hookes:* Genera of Plants; *Engler and Prantl:* Pflanzen-Familien. First term, 3 hours per week. Prerequisite to Biology 104. Professor Macloskie.

104. Systematic Botany of the Vascular Plants; second course. Gymnosperms and the vascular cryptogams; palæo-botany; phytogeography; field-work on the local flora. *Campbell:* University Text-book of Botany; *Britton:* Manual of Flora; *Coulter and Chamberlain:* Gymnosperms and Angiosperms. Second term, 3 hours per week. Prerequisite course: Biology 103. Professor Macloskie.

105, 106. The Morphology and Phylogeny of the Organ Systems of Vertebrates. Research course, both terms, 3 hours per week. Professor McClure.

107, 108. Comparative Morphology of the Invertebrates. Both terms, 3 hours per week. Professor Rankin.

109. Paleontology of Mammals. First term, 3 hours per week. Professor Scott.

110. Paleontology. The morphology and phylogeny of living and extinct vertebrates other than mammals. Second term, 3 hours per week. Dr. Farr.

An advanced course in biology has been established in connection with the geological, zoölogical, botanical and chemical departments, the objects in view being: (1) to foster a spirit of original research; (2) to qualify advanced students to become teachers. This course is open to graduates, also to students presenting diplomas from recognized medical schools.

It is not restricted to students who are candidates for a higher degree, if the applicants possess sufficient elementary knowledge to profit by the instruction.

This graduate course is of a comprehensive and elastic character, and according to the requirements and wishes of different students, includes much laboratory work under the direction of the instructor. At the close of the first term, the student may select a department of special study for his thesis, which must present the results of original work.

DIRECTORS OF THE SEMINARIES

1904–1905

Philosophical Seminary

Professor Hibben.

Economic Seminary

Professor Daniels.

Seminary in Archæology and Ancient Ar

Professor Frothingham.

Classical Seminary

Dean West.

English Seminary

Professor Parrott.

Romance Seminary

Professor Lewis.

Mathematical Seminary

Professor Thompson.

DEGREES

The following degrees are given for graduate study: Master of Arts and Doctor of Philosophy.

Master of Arts (A. M.)

The degree of Master of Arts may be conferred only upon those who hold a Bachelor's degree in the liberal arts and sciences from this or another approved college maintaining similar standards of liberal education, who shall also have devoted one year exclusively to graduate study in the University under the care of the Faculty, passing examinations upon the studies pursued; or shall have taken graduate courses involving at least three hours a week each term for four terms and passed satisfactory examinations upon these courses, and on such extra reading as may be assigned. The degree may also be conferred upon a Bachelor of this University who shall have submitted to the Faculty a satisfactory dissertation, ordinarily of not less than five thousand words, on some literary, philosophical or scientific subject previously approved by the Faculty, in April, not earlier than the third year after graduation. The fee for the degree is ten dollars, to be paid to the University Treasurer either before the candidate enters his last examinations, or else when his dissertation is handed in.

Every resident candidate shall announce to the Faculty, at least eight months before the degree can be conferred, the subjects which he intends to offer for examination. These subjects will be such as to form a consistent and well coördinated body of studies, and shall be subject to the approval of the Faculty.

Doctor of Philosophy (Ph.D.)

Subject to the regulations hereinafter stated, the degree of Doctor of Philosophy may be conferred upon any Bache-

lor of Princeton University, or of another approved institution whose academic course is equivalent to that pursued in Princeton, provided he has spent at least two years in exclusive study for the degree. One of the two years must be spent in Princeton, and the other either at Princeton or some other approved university.

Applications for permission to count two or more years spent at another university as the residence necessary for the degree, will be considered only in very exceptional cases.

Regulations

I. *The Preliminary Examination.*—Every applicant before enrolment as a candidate for the Doctor's degree must pass an examination in Princeton on the first Wednesday following the opening of the academic year in September.

All applicants are examined on their ability to read ordinary French and German with a fluency sufficient to ensure their use as instruments of advanced study. They are also examined in the group of subjects connected with the general department of their proposed studies as detailed below:

A. In the Department of Philosophy: Ability to read Latin with a fluency sufficient to ensure its use as an instrument of advanced study; general psychology and logic; history of philosophy, ancient and modern; outlines of general history.

B. In the Department of Language and Literature: Outlines of general history; general knowledge of the English language and literature; ability to read Greek and Latin with a fluency sufficient to ensure their use as instruments of advanced study.

C. In one of the following six groups in the Department of Mathematics and Science:

1. In Mathematics: Elementary mathematics, including trigonometry, analytical geometry, the elements of the theory of equations, and the differential and integral calculus.

2. In Astronomy: Elementary mathematics, including trigonometry and analytical geometry; general astronomy; general physics.

3. In Physics: Elementary mathematics, including trigonometry and analytical geometry; general physics.

4. In Chemistry: General chemistry; general physics.

5. In Geology and Physical Geography: Elements of geology, zoology, and botany; general chemistry.

6. In Biology: Elements of zoology and botany; general chemistry.

II. *Chief Subject of Study.*—Every candidate, after passing his preliminary examination and before entering on his studies for the Doctor's degree, shall announce which one of the subjects in the appended list he selects as his chief subject, and shall thereupon present to the Committee on the Graduate School for their approval a statement of the said chief subject to which he intends devoting himself while a candidate, with such fulness of explanation as the committee may require.

A. Department of Philosophy: Logic, psychology, ethics, metaphysics, history of philosophy, philosophy of religion, history, political economy, science of politics, jurisprudence, archæology and art.

B. Department of Language and Literature: Sanskrit, Greek, Latin, French, German, Italian, English (including old English).

C. Department of Mathematics and Science: Mathematics, astronomy, physics, chemistry, geology and physical geography, biology.

III. *The Subsidiary Subjects.*—In addition to the chief subject the candidate shall select two suitable subsidiary subjects and announce them to his examiners at some time in the first year of his course. One of these must be logic, psychology, ethics, or the history of philosophy, unless the candidate has chosen for his chief subject any one of those

just named or else passes a satisfactory special examination on some one of them before entering upon his course as a candidate. The subsidiary subjects should be cognate to the chief subject, but not included under it, and with this restriction any study enumerated in the lists of chief subjects may be taken, as well as the following which are not thus enumerated: physiological psychology, pedagogics.

IV. *The Thesis.*—The candidate shall present a thesis on some special topic in the department which constitutes his chief subject at least four months before the degree can be granted. The thesis is not ordinarily to exceed twenty thousand words in length, and shall not be accepted unless it contains evidence of thorough scholarship and ability to pursue original research, and, if accepted, it must be published by the candidate before the degree can be conferred. If the thesis is not accepted the candidate will not be admitted to the final examination.

V. *The Final Examination.*—After the thesis has been accepted the candidate may proceed to his final examination at a time appointed by the Committee on the Graduate School. This examination in the chief and subsidiary subjects is to be conducted orally in the presence of the Faculty and cannot be divided. In the chief subject, however, there may be a written examination in addition to the oral, if the examiner so requires. The candidate will be examined on his general knowledge of the chief subject, and will be expected to show in addition a minute and complete acquaintance with some one principal part of it.

VI. *The Conferring of the Degree.*—Candidates who pass the final examination are ordinarily recommended to the Trustees for the Doctor's degree, and if the Trustees adopt the recommendation, the degree is publicly conferred by the President at the annual Commencement in June. The degree of Doctor of Philosophy carries with it that of Master of Arts.

VII. *Fees.*—Those who apply for the degree shall pay the University Treasurer a fee of sixty dollars, in two instalments of thirty dollars, the first to be paid when the candidate is enrolled and the second when he sends in his thesis.

ACADEMIC COSTUME

The regular academic costume, characteristic of the preceding degrees, and appropriate for official academic occasions and official appearances in public, consists of three parts: the gown, the hood, and the cap. With respect to each of these parts certain things are prescribed, in conformity with similar rules prescribed by other universities after a general conference. These regulations, given below, arrange a scheme which makes the academic costume a plain badge of the grade of the degree, of the faculty to which the degree pertains, and of the institution granting the degree.

GOWN.—The *pattern* is that fixed by custom, with pointed sleeves for the Bachelor's degree, with long closed sleeves for the Master's degree, and with round open sleeves for the Doctor's degree. The *material* shall be worsted stuff for the Bachelor's degree, silk for the Master's and Doctor's degrees. The *color* shall be black. *Trimmings:* For the Bachelor's and Master's degree the gown shall be untrimmed; for the Doctor's degree the gowns shall be faced all the way down the front with black velvet, with bars of the same across the sleeves; or the facings and crossbars may be of velvet of the same color as the edging of the hood, given below, being distinctive of the faculty to which the degree pertains. The facing is about three inches wide, the crossbars are three in number, on the outside front of each sleeve, and are about an inch wide and three inches apart.

HOOD.—The *pattern* is that fixed by custom. The *material*, the same as that of the gown (worsted for Bachelors, silk for Masters and Doctors). The *color* of the outside, black. The *lining* (which is distinctive of the institution granting the degree), orange and black—the official colors of Princeton. It is the custom to have a black chevron upon an orange background. The *length* and *form* as follows: For the Bachelor's degree the length shall be three-fourths that for the Master's degree; for the Master's degree the length is that fixed by custom, not exceeding four feet; that for the Doctor's degree is of the same length, but shall have panels at the sides. It is the practice to have the panels edged with the color of the lining. The *trimmings*, binding, or edging (on the outside of the hood where it opens at the top), not more than six inches in width (two for Bachelors, three for Masters, five for Doctors), shall be of silk, satin, or velvet (velvet by custom); the color to be distinctive of the faculty to which the degree pertains, thus:

White—Faculty of Arts and Letters (A.B., A.M., Litt.D. or L.H.D.).

Scarlet—Faculty of Theology (B.D., D.D., S.T.D.).

Purple—Faculty of Law (LL.B., LL.D., J.U.D., D.C.L.).

Green—Faculty of Medicine (M.D.).

Dark Blue—Faculty of Philosophy (Ph.B., Ph.D.).

Gold Yellow—Faculty of Science (B.S., C.E., E.E., M.S., D.Sc.).

Brown—Faculty of Fine Arts.

Pink—Faculty of Music (Mus.B., Mus. D.).

CAP.—The cap is of the material and form fixed by custom, commonly called a trencher cap or mortar-board. The color shall be black. The Doctor's cap may be of velvet. Each cap shall be ornamented with a long tassel attached to the middle of the top. The tassel of the Doctor's cap may be, in whole or in part, of gold thread.

FELLOWSHIPS

I. UNIVERSITY FELLOWSHIPS

These fellowships were founded by subscription and endowment and were intended by the founders to encourage study and promote original research in the several departments to which they are assigned. They are distinguished from the competitive fellowships by being open to the graduates of any American college, while the appointments are made, not by competitive examination, but by a comparison of the records presented by the applicants as to their previous collegiate standing, capacity and character.

The fellowships are subject to the following regulations:

1. The fellowships are to be held for one year, but in cases of special merit they may be continued for a longer period by recommendation of the department and sanction of the Faculty.

2. The candidates shall be graduates of not more than five years' standing of an accredited American college. An application should be accompanied with evidence of the qualifications of the applicant to pursue an independent course of study and investigation in the department concerned.

3. Appointment shall be made by the Faculty upon recommendation of the Professors in the department interested, and shall be announced at Commencement.

4. All applications must be in the hands of the Dean of the Graduate School of the University on or before April 15, the appointees to hold their positions for a year from the following September.

It is deemed essential to the development of the Graduate School that the number of these fellowships should

be largely increased. The following have already been founded:

J. S. K. Mathematical Fellowship Fund

This fund was founded in 1873 by a resident of New York City, who gave $11,000 for the purpose. Through accumulations of interest it now amounts to $16,500. In accordance with the deed of gift, "the income from this fund is to be devoted exclusively to fellowship purposes in the department of mathematics."

One fellow in mathematics will be appointed each year. Frequently a second fellow may be appointed. Appointments will be made on the basis of the records presented by the applicants as to their previous collegiate standing, capacity, and character. In addition, in the case of resident students, a competitive examination may be held in June on geometry, differential equations, and the theory of functions.

South East Club University Fellowship in Social Science

This fellowship, which pays to the holder $500 per annum, was founded by alumni of the classes of '76, '77, '78 and '79—former residents of the South Entry of East College.

Class of 1877 University Fellowship in Biology

This fellowship pays to the holder $400 per annum.

Charles Scribner University Fellowship in English Literature

This fellowship, which yields the holder $500 per annum, was founded in memory of Charles Scribner by his son, Mr. Charles Scribner, of the class of 1875.

University Fellowship in Archæology

This fellowship pays to the holder $400 per annum.

Thaw Fellowship in Astronomy

This fellowship, which pays to the holder the income of $10,000, was founded by Mrs. Thaw, of Pittsburg.

John Harding Page Classical Fellowship

This fellowship was established in 1900 by Mrs. James Laughlin, Jr., as a memorial to her father, Mr. John Harding Page. It is conferred by appointment of the Faculty and pays the holder the sum of $600.

Francis Hinton Maule Biological Fellowship

This fellowship was founded in 1901 by Mr. and Mrs. Francis I. Maule as a memorial of their son, Francis Hinton Maule, who was a student in the University during the years 1895–98. It is conferred by appointment of the Faculty and pays the holder the income of $10,000.

Class of 1860 Experimental Science Fellowship

This fellowship was founded in 1870 upon the sum of $10,000 subscribed by the class of 1860. A deficiency of income, resulting from the depreciation of the value of the securities in which the principal was invested and the lowering of the rate of interest, is paid, by the consent of the donor, from the income of the Magee Professorship of Mining and Engineering, founded by George J. Magee, Esq., of the class of 1860.

By action of the Board of Trustees, taken in 1904, this fellowship was constituted a University Fellowship, to be administered, under the regulations governing the administration of such fellowships, by the departments of physics and chemistry.

II. COLLEGE FELLOWSHIPS

Besides the degrees and honors conferred in the regular course, annual fellowships, competitive scholarships, and prizes are offered as special incentives to study, in the classes or departments with which they are connected.

Only matriculated students who are candidates for a degree are admitted to the competition for these fellowships, prizes, and scholarships, and no one is admitted to such competition who has failed to pass satisfactorily his last preceding examination in any of the departments.

No member of any class is allowed to compete for more than one of the fellowships or scholarships offered to that class.

The names of the fellows, scholars, and prizemen of each year are included in the Honor List for the year.

The funds for the competitive fellowships, prizes, and scholarships are special gifts, and the income is appropriated according to the specific instructions of the donor. They do not belong to the general funds of the University.

Every competitor must have been a member of the University in full standing for at least two academic years previous to the fellowship examinations.

No student whose final rank for scholarship is below the second general group can be a competitor for any fellowship; and no student can be a competitor for the fellowship in any particular department whose average rank for the last two years of his course is below the first group in that department.

Every Fellow obtaining one of the competitive fellowships, the income of which is $400 or over, must devote his whole time for one year to study in the department for which the fellowship is provided, under the direction of the Professors in that department. He must reside in Prince-

ton, and pass two examinations on his work, unless by a vote of the Faculty he be allowed to study at an approved foreign university, in which case he shall from time to time furnish written reports of his work to the Professors in his department. The result of every examination and the reports of work done abroad shall be immediately reported to the Faculty. Any Fellow resident in Princeton shall, when called upon, perform such duties in the department to which he belongs as may be assigned to him by the President at the request of the Professors in that department. Any Fellow may be allowed to occupy free of cost in one of the University buildings a room assigned to him by the University authorities, and while occupying such room he shall be regarded as a resident officer of the University, and shall perform such duties in preserving order and decorum in the University edifices as the President and Dean of the Faculty may assign.

Chancellor Green Mental Science Fellowship

This fellowship, originally founded in 1870 upon the annual payment of $600 by the late Chancellor Henry W. Green, was permanently endowed in 1878 by a gift of $10,000 by his widow.

The income of this fund, at the current rate of interest, to be paid quarterly, will be awarded to that member of the Senior class who shall write the best essay on a subject to be assigned by the department of philosophy (to be given in on or before June 1), and who shall stand highest at a special examination to be held in June.

The examination will include the philosophies of Plato, Aristotle, Descartes, Locke, Leibnitz, Hume, Reid, and Kant; also theoretical ethics, metaphysics, psychology, and inductive logic.

Boudinot Fellowships

These fellowships are founded in part upon a bequest of Dr. Elias Boudinot, of New Jersey.

The Historical Fellowship.—The sum of $200 per annum, to be paid quarterly, will be given to the holder of the fellowship, who shall be appointed by the Faculty, upon the nomination of the President and the Professor or Professors of history, for any period not exceeding three years, on condition that he reside in Princeton and devote his whole time to historical research; that he deliver such lectures and conduct such exercises as the President and Professor or Professors of history shall direct, and that he perform such other duties as may be assigned him in accordance with the general regulations respecting the duties of resident Fellows.

The Modern Language Fellowship.—Candidates for this fellowship must have completed the French and German courses of Junior and Senior years, amounting to at least two hours a week in each subject for both terms of both years. The sum of $200, to be paid quarterly, will be awarded to that member of the Senior class who shall pass the best examination in June on the following subjects:

In German—Translation from English into German; the reading at sight of German prose, historical and literary; history of German literature; *Behagel's* Die deutsche sprache.

In French—Translation from English into French; a knowledge of historical French Grammar; the history of French literature; and work in Molière's plays, portions of Pascal, Madame de Sévignè, Voltaire, and Victor Hugo, to be assigned upon application. An essay of not less than four pages (foolscap) in either French or German.

The Fellow shall from time to time during the following year, as may be required by the Professors of Modern Lan-

guages, give evidence by papers that he is reading such a course as the Professors may approve.

The E. M. Biological Fellowship

This fellowship will be awarded after a competitive examination on subjects assigned by the Professors of the biological department.

The competition for this fellowship will be open to any member of the Senior class, or to any college graduate who shall have pursued during the preceding year the university course in biology at Princeton, and who shall, in the opinion of the examiners, be deemed competent to pursue the subject advantageously.

This fellowship conveys the use of a table in the National Seaside Laboratory at Woods Holl, Mass., together with all the facilities afforded for the collection and study of animal life during the season favorable for such investigations. In the winter months following this laboratory work the Fellow will pursue his studies at Princeton, and will be required to prepare and submit a thesis embodying the results of his summer researches.

The examination for this fellowship in 1905 will be held in June upon the following subjects:

1. Life-history of higher cryptogams and gymnosperms.
2. Anatomy and embryology of mollusca.
3. Anatomy and embryology of the teleosts and selacians.
4. The histology of the nervous system.

PART VI

EXAMINATIONS, STANDING, AND GRADUATION; HONORS; GENERAL ORDERS; AND PUBLIC LECTURES

EXAMINATIONS, STANDING, AND GRADUATION

MODE OF CONDUCTING EXAMINATIONS

All written examinations and written recitations are conducted under the honor system. A student is not watched during an examination by any officer of the University, but he is required to write on his paper a pledge that he has been guilty of no dishonesty or irregularity in connection with the examination.

The administration of the honor system is in the hands of a student committee by whose rules it is the recognized duty of every student to report to the committee any evidence of dishonesty in examination that may come under his observation. If after investigation of such evidence the committee finds a student guilty of dishonesty, it reports his case to the Faculty with a recommendation that he be finally dismissed from the University.

REGULATIONS RESPECTING CONDITIONS AND ABSENCE FROM EXAMINATION

I

Conditions are incurred:

1. By failure to satisfy the requirements of any course. The requirements of a course include both the term work and the examination.

2. By exclusion from an examination.

A student who has unexcused absences amounting to more than one-sixth of the exercises of any course, shall be excluded by the instructor from the examination in that course.

3. By absence from an examination.

Absence from an examination, due to whatever cause, is counted as a condition if the term grade in the subject is below the passing mark. Every absence from an examination is counted as a condition unless the student presents to the Committee on Examinations and Standing satisfactory evidence that the absence was unavoidable. In all cases of absence from an examination, the deficiency must be made up as if it were a condition.

II

1. A student who, at the end of a term, has conditions amounting to half of a term's work or more, may not graduate with his class. In applying this rule, not only conditions of that term are counted, but also conditions of a year's standing or more, and all entrance conditions not removed by the beginning of Sophomore year. Each entrance condition is counted as equivalent to a condition in one hour of college work.

2. A student of the Department of Civil Engineering thus deficient, or a Freshman who at the end of the first term, fails in half of his work or more, may, after the lapse of a whole term, and with the permission of the Faculty, enter the next lower class.

3. Any other student, except a Senior, thus deficient, may, after the lapse of a whole term and with the permission of the Faculty, either enter the next lower class, or reenter college with an arrangement of studies which will make it possible for him to meet the requirements for his degree by the February after the graduation of his class.

4. A student thus deficient at the end of the first term of Senior year may, with the permission of the Faculty, continue with his class during the second term, with an arrangement of studies which will make it possible for him to meet the requirements for his degree by the February after the graduation of his class.

5. A Senior who, at the end of the Senior final examinations, has conditions, will have an opportunity to be reëxamined before Commencement unless his conditions amount to half of a term's work or more. In applying this rule all conditions, of whatever term, and also all entrance conditions, are counted. If he then removes all his conditions, he may be recommended to receive his degree with his class. No further opportunity will be given him until the next academic year to remove his conditions and thus qualify himself for his degree.

III

Examinations for the removal of conditions occur as follows:

1. For the removal of entrance conditions opportunities are given in December, during the last week before the Christmas vacation, and also at the regular entrance examinations in June and September.

2. For the removal of conditions incurred at the end of the first term, examinations are held (1) on the days immediately preceding the spring recess, and (2) during the week of the opening of the University in September.

3. For the removal of conditions incurred at the end of the second term, examinations are held during the week of the opening of the University in September.

4. There are no other opportunities for the removal of a condition by examination, except at the examination period corresponding to the one when the condition was originally incurred, and then only by previous arrangement with the Committee on Examinations and Standing.

5. A condition in an elective course may also be removed by taking and satisfying the requirements of an extra elective course, of the same number of hours and of the same curriculum year. But only one such extra course may be taken in any term.

IV

A fee of $5.00 will be charged each year for each condition remaining after the September examinations for the removal of conditions. This does not apply to entering students.

STANDING

The results of the term examinations are combined with those of the recitations to decide the relative standing or rank of the student.

The rank in each course is determined by the instructor, who computes from the recitations and examinations the marks of the class and divides the class into five groups in the order of merit.

The first group indicates very high standing and contains not more than twenty-five per cent. of the entire class.

The second group indicates high standing and contains not more than twenty per cent. of the entire class.

The third group indicates medium standing and contains not more than thirty-five per cent. of the entire class.

The fourth group indicates low standing and contains not more than twenty-five per cent. of the entire class.

The fifth group contains the remainder of the class; it indicates very low standing.

The general rank of a student is determined by combining his group numbers in the several courses in proportion to the allotted schedule time of each. The students whose averages are highest, and above an established limit, are assigned to the first general group; those next highest to the second general group, and so on through the general groups.

A report of the standing of each student is made to his parent or guardian by the Registrar at the close of the first term and at the close of the year. The latter report gives also the standing for the whole year.

DEGREES

A student who passes his final examinations is ordinarily recommended by the Faculty for the degree appropriate to his course, and if the recommendation is approved by the Trustees, the degree is conferred at Commencement and the diploma of the University is given.

FINAL RANK AND GRADUATION HONORS

The final rank of members of the graduating class is computed by combining the averages for the several years of the course, except that the average for the Freshman year is omitted in those cases in which it would lower the standing of the student. The Faculty then determines what portion of the class shall be printed as the Honor List —the names of the members of each group being printed in alphabetical order. Special Honors in particular Departments are also awarded.

The first and second general groups thus determined are the Honor Groups of the graduating class, and are designated *magna cum laude* and *cum laude*, respectively.

The higher distinction of *insigni cum laude* and the highest of *summa cum laude* are reserved for very unusual excellence.

COMMENCEMENT SPEAKERS

The student whose individual rank is highest is ordinarily awarded the Latin Salutatory by vote of the Faculty. The Valedictory is awarded with special regard to the qualifications of the student as a valedictorian as well as on the ground of scholarship.

In the award of all degrees and honors, regard is had to the conduct of the student during his course, and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

HONORS

REGULATIONS FOR GENERAL AND SPECIAL HONORS

Honors are of two kinds, *General* and *Special.*

I. *General Honors* are awarded for general excellence in studies at the close of each academic year, according to the following provisions: At the close of the Freshman, Sophomore, and Junior years, High General Honors are given to those whose average rank for the year is within the first general group, and General Honors to those whose average rank for the year is within the second general group. At graduation High General Honors are given to those whose final average rank for the whole academic course is within the first general group, and similarly General Honors to those within the second general group. In very exceptional cases the Faculty may also bestow the further distinction of Highest Honors. No Senior who has not taken the Junior year in Princeton shall receive General Honors.

II. *Special Honors* are awarded for excellence in single leading departments of study at the close of the Freshman and Sophomore years and at graduation, according to the following provisions:

Freshmen and Sophomores who stand in the first or second group in any subject receive Special Honors in that subject.

Final Special Honors are based on the work of the Junior and Senior years, as follows: A Junior who maintains a standing for the year not below the second group in each of the courses of his Department and a general standing not below the third general group, is entitled to be a

candidate for Final Special Honors, and as such may substitute for one of the elective courses in his Senior year the Proseminary of his Department.

Final Special Honors are of three grades: Highest Honors, High Honors, and Honors.

Highest Honors shall be awarded to the Senior who in Junior and Senior years has maintained a first group standing in each of the courses of his Department and a general standing not below the second general group.

High Honors shall be awarded to the Senior who in Junior and Senior years has maintained a first group standing in at least half of the courses of his Department, with a standing not below the second group in any of these courses, and also a general standing not below the second general group.

Honors shall be awarded to the Senior who in Junior and Senior years has maintained a standing not below the second group in each of the courses of his Department and a general standing not below the third general group.

Special honors may be awarded to a Senior who has not taken the Junior year in Princeton.

GENERAL ORDERS

TERMS AND VACATIONS

The year is divided into two terms of eighteen weeks each.

The first term of the present academic year (1904–1905) began on Wednesday, the 21st of September, 1904, and ends on Wednesday, the 8th of February, 1905. The second term begins on Thursday, the 9th of February, 1905, and ends on Wednesday, the 14th of June, 1905, the day of the annual Commencement.

REGULATIONS CONCERNING REGISTRATION AND CHOICE OF ELECTIVES

Rules for Registration

At the beginning of the academic year each undergraduate student shall report in person at the Registrar's Office before 3 P.M. on the Thursday on which the University opens, and register his full name, home address, and Princeton address.

After the Christmas vacation each undergraduate student shall report at the Registrar's Office before 10 A.M. on the Thursday on which the vacation ends, and register his name.

In every case of neglect or delay in registration three absences will be recorded against the student for each day that the registration is delayed. Serious cases will be punished by such an increase in the number of absences recorded as the Committee on Attendance may direct, by

putting the student on probation, by suspension, or otherwise, as the Faculty may determine.

Any absence from a class exercise incurred in the three days before a vacation or before or after a recess shall count as equivalent to two absences incurred at any other time.

Choice of Electives

It is very desirable to obtain from each student his choice of electives as early as possible, so that the rolls of the elective classes may be made out before the opening of the term. The students are therefore requested to report to the Registrar their choice of electives for the first term of the next academic year on or before the day on which the second term examinations begin. Changes which the student desires to make in his choice may be made by letter to the Registrar in the summer vacation. No changes will be allowed after the beginning of the first term.

The choice of electives for the second term must be reported to the Registrar on or before the third Monday in January.

The penalty for delay in reporting the full list of electives for the term shall be the record of one absence each day for each elective not reported until the list is complete; this delay to be reckoned from the registration at the beginning of the academic year or from the third Monday in January. Serious cases shall be punished more severely as the Faculty may determine. If the student enter any elective class after exercises with that class have been held, he shall be reported by the instructor as absent from those exercises.

REGULATION OF ATTENDANCE

Committee on Attendance

1. The Committee on Attendance has charge of all matters pertaining to attendance on chapel and class exer-

cises. It meets every Thursday, from 1.30 P.M. to 2.30 P.M., in the Faculty room, University Offices.

Divisions of the Year

2. In the regulation of attendance, the academic year shall be divided into four quarters.

Excuses

3. Requests for permission to be absent from Princeton should be presented to the Committee on Attendance, or in special cases to the Dean of the Faculty.

4. Excuses for absence must always be presented in person to the Committee on Attendance. To be accepted they must be presented (or at least left at the Registrar's Office) not later than the second meeting of the Committee after the return of the student to his academic exercises.

5. Students who absent themselves from town over Sunday and who desire that the absence from chapel thus incurred shall be excused must file a statement in the Registrar's Office, on a form provided by the office, during the week immediately preceding or following the absence. Such excuses shall not be granted more than *twice* in any one quarter, and further absences thus incurred will be counted on the gratuity. No excuse will be granted unless application is made within a week of the absence. Students may, however, go *home* over Sunday, and absences so incurred will be excused on filing at the Registrar's Office, on a special form provided by the office, a request by parent or guardian that such absence be excused. Such excuses to be valid must be presented during the week preceding or following the absence.

6. Absences necessarily incurred by the University musical clubs in connection with a tour taken in vacation by permission of the Faculty, will be excused on recommendation of the Committee on Non-athletic Organizations.

7. Absences necessarily incurred by the University athletic teams in connection with intercollegiate games will be excused on recommendation of the Committee on Outdoor Sports.

Attendance on Chapel Exercises

8. Every undergraduate student is required to attend morning prayers in the chapel and the stated service on Sunday unless excused by the President or Faculty. If the student is irregular in his attendance notice will be sent to his parent or guardian. When his absences in any quarter exceed a certain number (18 for Seniors and Juniors, 14 for Sophomores, Freshmen, and Specials), he becomes liable to discipline, which in ordinary cases shall be suspension.

9. If, at the end of the first quarter in each term, the student's absences from the chapel are less than the limit above fixed, the difference, or 6 if the difference be greater than 6, will be added to the limit fixed for the second quarter in that term, to determine the number which renders the student liable to discipline.

10. If the student's absences in any quarter exceed the limit and discipline is inflicted, any further irregularity in attendance renders him liable to further discipline at the discretion of the committee; and a number of absences, not exceeding the number incurred in excess of the limit, may be charged against him at the beginning of the next quarter.

Attendance on Class Exercises

11. Every undergraduate student is required to attend the scheduled exercises of his class. When his absences in any quarter exceed a certain number (10 for Seniors and Juniors, 8 for Sophomores, Freshmen, and Specials), he becomes liable to discipline, which in ordinary cases shall be the imposition of extra work, though other penalties may be imposed at the discretion of the committee. After

the first penalty has been imposed, any further irregularity in attendance in that quarter renders the student liable to suspension.

12. If a student is irregular in his attendance on the exercises of any instructor, the instructor may impose extra work; and, in case the absences exceed one-sixth of the exercises with that instructor, the student will be debarred from the regular examination. A student thus debarred from examination shall be dealt with according to the regulations for conditioned students.

PUBLIC WORSHIP

Prayers are offered in Marquand Chapel every week-day morning.

Divine service, under the superintendence of the President, is held in Marquand Chapel on Sunday at 11 o'clock A.M.

Permission to attend divine service elsewhere than in the chapel, on special occasions, is granted on application to the President. For permission to attend regularly one of the churches of the town on Sunday morning, a written request from the parent or guardian of the applicant must be presented to the President.

COMMENCEMENT EXERCISES

The Annual Commencement takes place on the Wednesday preceding the last Wednesday but one in June.

The Baccalaureate address of the President to the graduating class is delivered on Sunday of Commencement week.

The Class Day exercises of the graduating class are held on Monday of Commencement week. The annual meetings of the Literary Societies, the annual meeting of the Alumni Association of Nassau Hall, and the Lynde Prize Debate are held on Tuesday.

PUBLIC LECTURES

TRASK LECTURES

The interest of $10,000, presented by Mr. Spencer Trask of New York City, is available to secure the services of eminent lecturers to deliver public lectures before the University on subjects of special interest.

THE ANNE M. LOOMIS RECITALS

Established in 1904 by Mrs. Willard Humphreys, in memory of her mother, for the promotion of musical culture in the University. The terms of Mrs. Humphreys' gift provide for two song recitals annually; the first to be devoted to folk songs, and the second to art songs, or song classics.

PART VII

GROUNDS AND BUILDINGS, AND INSTITUTIONS CONNECTED WITH THE UNIVERSITY

GROUNDS AND BUILDINGS

The Campus

During the first decade of its existence, the College of New Jersey owned neither grounds nor buildings. The College exercises were held either in the house of the President or in convenient rooms elsewhere.

From the beginning, however, it had been the purpose of the Trustees to erect college edifices in a central part of the state and there locate the institution permanently. In accordance with this plan it was voted by them on May 15, 1751, that the necessary buildings should be erected at New Brunswick, provided the citizens of that place secured to the College the sum of one thousand pounds proclamation money, two hundred acres of woodland, and ten acres of cleared land. An offer of these terms was also made by the inhabitants of Princeton at the same meeting of the Trustees, and when, in September, 1752, it was learned that New Brunswick had not complied with the required terms, the Princeton offer was formally accepted. The particular tract of ground which became the site of Nassau Hall was donated by Nathaniel Fitz Randolph, and the money guarantee was furnished by Messrs. John Stockton, Thomas Leonard, and John Horner, all wealthy residents of the village.

The University campus now consists roughly of two hundred and twenty-five acres, forming a quadrangle bounded by Nassau street on the north, Washington street on the east, Stony Brook on the south, and the line of the Pennsylvania Railroad on the west. East of and adjoining the

campus lies the Olden farm of one hundred and six acres, held in trust for the University, and on the west the Princeton golf links, covering two hundred and twenty-five acres.

Nassau Hall

Nassau Hall, the oldest and historically the most interesting building on college property, is picturesquely situated on the most elevated point of the front campus. At the time of its completion in the autumn of 1756, it was the largest academic building in the country. It was designed by Robert Smith, of Philadelphia, and was built of reddish gray sandstone quarried in the neighborhood, and now covered with ivy. In its three stories and basement it formerly contained, exclusive of the prayer hall or chapel, which occupied the central portion of the building, sixty rooms which included refectory, library, and recitation rooms. It was named Nassau Hall in honor of William of Nassau, Prince of Orange, William III of England. During the Revolution it served at different times as hospital and barracks for American and British troops; and here from June to November, 1783, the Continental Congress sat.

Remodelings of the interior, consequent upon two disastrous fires in the last century, have strikingly altered the arrangement of the building. The upper floor contains the Histological Laboratory and the Laboratory of Experimental Psychology; on the second floor may be found the Department Library of Geology and Paleontology and the office of the Curator of the E. M. Museum, while the first floor is occupied by the Paleontological Laboratory and the Geological lecture room. On this floor, too, is the E. M. Museum and the University's collection of portraits of presidents, officers, and benefactors of the College, together with the Peale portrait of Washington. The Museum is open daily except Sundays.

The Dean's House

A house for the president of the college was erected in 1756, and until 1879, when Prospect was acquired by the Trustees, it continued to be the presidential residence. Since the creation of the office of Dean of the Faculty the house has been the Dean's official residence.

The University Offices

In 1803 a substantial stone building containing recitation rooms, a library room, and apartments for the two literary societies of the College, the Cliosophic and the American Whig, was erected west of Nassau Hall. This building is now used as the executive headquarters of the University, and contains the Office of the Treasurer, the Office of the Registrar, the Office of the Curator of Grounds and Buildings, and the Faculty Room.

Prospect

Prospect, the official residence of the President of Princeton University, is one of the oldest estates in the town, although it was not acquired by the University until 1879. The mansion, erected in 1849, is beautifully situated in extensive grounds, the main entrance to which opens on McCosh Walk.

Halsted Observatory

This observatory is appropriated to scientific work, chiefly in the department of astronomical physics. The building, the gift of the late General N. Norris Halsted, is of stone, with a dome thirty-nine feet in diameter, the power for moving it and its sliding shutter being furnished by an electric motor and a storage battery. In it is mounted the great equatorial, of twenty-three inches aperture and thirty feet focal length, made by the Clarks, and provided with all the usual accessories, micrometric, spectroscopic, and

photometric. The building also contains a clock and a chronograph, and is in electric connection with the Observatory of Instruction. At present the principal work is the photometric observation of variable stars under a grant from the Carnegie Institution.

Observatory of Instruction

This observatory is devoted entirely to the use of students, and is fully equipped for its purpose. It possesses an equatorial (by Clark) of 9½ inches aperture, with a full complement of spectroscopic and other accessories. It has also a 9-inch reflector; a meridian circle with circles 2 feet in diameter, and a 4-inch telescope; two transit instruments with 3-inch telescopes, both of them arranged for use as zenith telescopes; a 3-inch prime-vertical instrument; a chronograph; two standard clocks and five subsidiary clocks, one in each observing room. There are also a number of sextants, two chronometers, and all the other auxiliary apparatus required for carrying out the work in the courses on practical astronomy, to accommodate which a room for lectures and recitations has been added.

Dickinson Hall

This building, the gift of John C. Green, Esq., is used for the class-room work of the Academic Department.

The building, erected in 1870, was built of local stone, trimmed with Connecticut limestone. It was named by Mr. Green as a memorial of Jonathan Dickinson, first President of the College, and was designed by George B. Post, architect, of New York.

In 1876 extensive alterations were made in the building, and the exterior has been very much changed, being now Gothic in its general appearance.

The first and second floors contain lecture rooms sixteen feet high and admirably lighted; over these, on the third

floor, is the Examination Hall, eighteen feet high, containing a stage for public speaking, and accommodating about four hundred persons.

The School of Science Building

The School of Science Building was erected in 1873 and liberally equipped by John C. Green, Esq., a benefactor of the institution in many ways. It is devoted to the purposes of instruction and research in the John C. Green School of Science and contains the lecture rooms and laboratories of that department.

On the first floor are located the physical laboratories and lecture rooms, the civil engineering lecture rooms and laboratories, and other class-rooms. On the second floor are the biological and astronomical lecture rooms, the biological laboratory, and the drawing-rooms of the department of graphics. In the graphics room is a set of duplicates of the more important Olivier models of ruled surfaces; here also are the Björling developable surface models, a number of the Muret set, and the Shröder mathematical models. On the third floor are the collections of the Museum of Biology and the private working rooms and laboratories of the Curator.

In the basement of the building are other recitation rooms and the machine shops of the School of Science, and connected with it is the dynamo building of the Department of Electrical Engineering.

Marquand Chapel

The chapel was the gift of the late Henry G. Marquand, Esq., of New York. The cornerstone was laid in June, 1881. The building is constructed of brownstone, and is in the shape of a Greek cross. The apse contains the organ and choir stalls. A gallery over the main entrance is for visitors. The faculty stalls are along the sides of the build-

ing. The mural and window decorations are noteworthy. The St. Gauden's heroic bronze high relief of the late President McCosh, erected by the Class of 1879, faces the visitor on entering; by its side are the low relief memorial tablet to Professor Joseph Henry and the bronze tablet to Professor Arnold Guyot, set in a fragment of a Swiss glacial boulder presented by the authorities of his native city, Neuchatel. On the east wall of the southeast corner of the chapel is the memorial tablet to the Rev. James Ormsbee Murray, first Dean of Princeton University, presented to the University in November, 1901. This tablet consists of rose-colored Numidian marble, upon which is a medallion-portrait in bas-relief of white marble, surrounded by an embossed wreath.

The south and north windows are in memory of Frederick Marquand, of the class of 1876, and William Earl Dodge, of the class of 1879. The west window is the gift of Mrs. T. Harrison Garrett of Baltimore, in memory of her son, Horatio W. Garrett, of the class of 1895. The Sunday and daily morning services are held in the chapel.

Alexander Hall

This building is the gift of Mrs. Charles B. Alexander. It is used for Commencement and Class Day exercises, public lectures, and other university gatherings of a general character. The auditorium is arranged with sloping floor and high gallery, so that an audience of fifteen hundred may be comparatively near the speaker. The rostrum and President's chair are finished in colored marbles and polychromatic mosaic. Behind the rostrum is a row of mosaic wall pictures designed by J. A. Holzer, illustrative of the Homeric story. A large organ built by George Jardine and Son, and embodying the most recent features of organ construction, stands in one of the small galleries near the rostrum.

The building is constructed of granite and brownstone in the Romanesque style of western France. The front toward the south exhibits a large rose window beneath a gable roof, and between the central structure and two side towers are two fine round-arched openings which lead into a wide ambulatory encircling the building. From this ambulatory the rostrum and auditorium are reached. The two side towers and two smaller ones at the rear enclose staircases, which lead to the auditorium gallery. The building, which was designed by William A. Potter, has been decorated with sculpture under the direction of the architect, by J. Massey Rhind. Beneath the rose window on the south front is a seated figure of Learning, on one side of which are allegorical figures of Architecture, Sculpture, Painting, Poetry, Music, and Belles Lettres, on the other of Oratory, Theology, Law, History, Philosophy, and Ethics. There are other sculptures about the rose window and in the niches around the ambulatory.

Isabella McCosh Infirmary

The Infirmary, built by the alumni and friends of the University, contains all the modern arrangements of the best hospital construction. The buildings are pleasantly located on the hillside below Prospect, commanding every advantage of position as to air, outlook, and sewerage. The two buildings are isolated from one another and are connected only by a long corridor. One of these buildings is devoted to the treatment of all ailments not requiring special isolation. The other provides for the reception of those cases in which isolation is desirable. While the health of Princeton is exceptionally good, the occasional illness incident to so large a body of students demanded accommodation suitable for its care. This has been secured in the Infirmary by the liberality of friends of the University.

The Sanitary Committee of the University has the In-

firmary under its care. It is thus brought under constant and careful supervision. It is open to the reception of students on the certificate of an attending physician. As the Infirmary is without endowment, each student by the payment of a small fee secures for himself, in all cases of ordinary illness, needed care, including board, nursing and laundry, everything but physician's fees and medicines, without charge. Where special nursing is required, an additional charge covering actual expenses will be made; and when an illness covers a period of more than one week board will be charged for after the first week at the same rate that the student would pay at his usual boarding place.

The Gymnasium

The Gymnasium, erected by the alumni at a cost exceeding $280,000, is situated toward the southwest end of the campus, in close proximity to the Brokaw swimming-pool, which has been architecturally combined with it. In style of architecture this building conforms to the academic Gothic of Blair and Little Halls, and the material used in its construction is the same Germantown stone. These three buildings, harmonizing in style and general effect, form an almost unbroken western boundary to the campus.

The façade of the Gymnasium comprises two full stories and a tower. The lower story contains a trophy hall, finished in English oak, and the upper floor is devoted to committee rooms, superintendent's quarters and other necessary apartments.

The Gymnasium proper is entered through the trophy hall. It is 166 feet long and 101 feet wide, and is almost as high as the two-story portion of the building. Its roof is supported only by the side walls, so that the interior is unobstructed. About its walls is an elevated running-track over 150 yards around, and in the basement are locker

rooms, bowling alleys, and places for various forms of indoor exercise.

It contains, besides the main hall with the apparatus for physical training, hot and cold shower and plunge baths and dressing rooms. The Gymnasium is open daily from 10 A.M. to 10 P.M. throughout the University year. The director is in attendance during these hours to examine, advise, and instruct all who may desire his services.

DORMITORIES

West College

After Nassau Hall, West College, built in 1836, is the oldest dormitory building still standing. It forms the western side of the central quadrangle and contains forty suites of rooms.

Reunion Hall

Reunion Hall, erected in 1870, on the site of Professor Joseph Henry's residence, between West College and the University Offices, was so named to commemorate the reunion of the Old and New Schools of the Presbyterian Church. Prominent members of each party donated the funds by which it was built, and its cornerstone was laid by the officers of the General Assembly.

Witherspoon Hall

Witherspoon Hall, named after the president of Revolutionary days, the signer of the Declaration of Independence, was built in 1877 for the purpose of affording more modern and comfortable rooms than had previously been considered necessary. It contains sixty suites. Built of brownstone and blue gray stone with brownstone trimmings in the Victorian Gothic style, it towers above the neighboring buildings on the western section of the campus and forms the

north side of the quadrangle enclosed by Edwards and Stafford Little Halls.

Edwards Hall

Edwards Hall, a brownstone Gothic building, is named after President Jonathan Edwards and contains eighty-four rooms. It was erected in 1880.

Albert B. Dod Hall

Albert B. Dod Hall, the gift of Mrs. David Brown, of Princeton, was erected in 1890 in memory of her brother, Professor Albert Baldwin Dod of the class of 1822. It is a long massive structure in Italian style, the body stone of granite with trimmings of Indiana limestone, while the columns flanking the entrance are of Georgia marble. The small amount of carving over the main entrance is Byzantine. The building has accommodation for one hundred students.

David Brown Hall

David Brown Hall, a dormitory of fifty suites, is another gift from Mrs. Brown. It was erected in 1891 in memory of her husband. It is modeled after a Florentine palace in the Italian Renaissance style, and forms a hollow square of four stories enclosing a courtyard 67 by 44 feet. The first two stories are of granite, the two upper stories Pompeiian brick. A granite seat runs the length of the front façade. This dormitory is situated at the edge of Prospect gardens and overlooks the long slope down to the Stony Brook valley and the landscape beyond.

Blair Hall

Blair Hall, a Sesquicentennial gift from the late Hon. John Insley Blair, was the first representative of the style of architecture which has since been adopted for the later

Princeton buildings. The style is the English collegiate Gothic. Blair Hall is built of white Germantown stone and is one of the largest dormitories on the campus, containing fifty-three suites. The square massive central tower is pierced by an archway which with the terraces and flight of steps forms the entrance to the campus from the southwest.

Little Halls

Adjoining the southern end of Blair Hall and following out that building's line and style on a slightly lower level of ground is Stafford Little Hall, the gift of the late Henry Stafford Little, of the class of 1844. It was erected in 1899, and its thirty-two suites have the advantage of all the conveniences of a thoroughly appointed dormitory building. An extension of this building, erected in 1902, the gift of the same generous benefactor, adjoins the first, thus forming with Blair Hall at one end and the new Gymnasium at the other a series of architecturally harmonic buildings marking the western confines of the campus.

University Hall

University Hall, at the junction of Nassau street and University Place, was originally planned as a hotel, but now serves as a dormitory, its revenue going to the support of the E. M. Museum.

The Pyne Buildings

The two other dormitories on Nassau street are the Upper and Lower Pyne Buildings, the latter being on the corner of Nassau and Witherspoon streets. These buildings were erected in 1896 by M. Taylor Pyne, Esq., of the class of 1877, and are in the half-timbered Chester style.

Seventy-nine Hall

The style of architecture which has been adopted for the '79 dormitory is a development of the Tudor Gothic, so

extensively used at Oxford and Cambridge and in the recent buildings at Princeton. Its site, however, on Washington Road and opposite Prospect Avenue, is so far from Blair and Little Halls and the Gymnasium, that advantage has been taken of the opportunity to change the materials and so give it a more individual character. The walls are of red brick, the trimmings of Indiana limestone.

The building is two stories in height, with a basement in which the toilet arrangements are placed. Toward the middle and directly opposite Prospect Avenue is a tower which forms the principal feature of an asymmetric composition. The accommodations of each wing are for twenty-four men. There are five entries on the campus side and one opposite McCosh Walk, and the studies are generally on the Washington Road side. The suites consist of a study, and two single bedrooms, separated from the study by a passage opening from the stair hall, with ample closet room. There is an open fireplace set in every study and many of the windows are bayed. In the basement of each wing are showers, water closets, and lavatories, all in direct communication with the various stairways. These are all well lighted and particular attention has been paid to securing the best results possible in this part of the work. The building is heated by steam and lighted with electricity.

THE UNIVERSITY LIBRARY

ERNEST C. RICHARDSON, Ph.D., Librarian.
JUNIUS S. MORGAN, A.M., Associate Librarian.
V. LANSING COLLINS, A.M., Reference Librarian.
ENNO LITTMANN, Ph.D., Librarian Oriental Department.
WILLIAM W. BISHOP, A.M., Chief of Catalogue Department.
MISS CHARLOTTE MARTINS, Chief of Purchase Department.
CHARLES A. GEORGE, A.M., Chief of Classification Department.
RALPH H. PEABODY, Assistant in charge of Circulation Department.

The Library began with the College, Governor Belcher, the patron of the College, directing his especial attention and interest to it, and leaving to it his collection of 474 volumes. When the first catalogue was printed in 1760, the Library consisted of about 1,300 volumes. It was increased largely in the sixties, but was decimated during the Revolution and in 1796 numbered only 2,300 volumes. It was partly destroyed by fire in 1802, but shortly after its size was fully restored by gifts. In 1816 it numbered 7,000 volumes, in 1839, 8,000, and in 1850 it had advanced to 9,313 volumes. In 1868 it contained but 14,000 volumes without separate building or librarian.

THE CHANCELLOR GREEN LIBRARY

In 1868 the Elizabeth Fund for the purchase of books was created by John C. Green, Esq., and soon afterward he erected a library building (in 1872–3) named in honor of Chancellor Green. This Chancellor Green Library building has recently been refitted throughout with the most modern system of heating, ventilation, and electric light, as the working library of the University for undergraduates, containing the standard and latest works in all departments

and especially fitted for study. In addition the Chancellor Green Library contains the following special collections:

The Charles Ewing Green Alcove. The alcove facing the public entrance to the Chancellor Green Library has been set aside as a memorial to the late Charles Ewing Green, LL.D., class of 1860. Mr. Green was for many years a Trustee of the University, and as the administrator of the John C. Green estate was one of Princeton's most generous and consistent benefactors. To commemorate the active interest which he always took in the Chancellor Green Library, as well as in the general library development of the University, Mrs. Charles E. Green has erected in this alcove a memorial tablet, and is filling the shelves with books on classical philology. There are at present 2,607 volumes in this collection.

The Class of 1883 Library of Political Science and Jurisprudence, founded and endowed in 1893. Contains at present 848 volumes. Location: alcove X, gallery.

The Class of 1889 Library of American History, established and endowed in 1899. At present 275 volumes. Location: alcove C, main floor.

The Class of 1878 Library of Chemistry, established and endowed in 1889. Numbering at present some 50 volumes, distributed among the collections relating to this subject. Location: alcove Z, gallery.

The Pyne-Henry Collection of Manuscripts relating to the history of the University, presented by M. Taylor Pyne, Esq., '77, and the Hon. Bayard Henry, '76. 1,356 documents. Location: alcove B, main floor.

The Main Library Building

The Chancellor Green building having for a long time been crowded beyond its calculated capacity, provision was made on the occasion of the Sesquicentennial by a friend of the University for a new building with a capacity of 1,200,000

volumes, besides adequate administration rooms, twenty rooms for instruction in research, and a large room for the exhibition of rare books. The new building, in the Oxford Gothic style, of Longmeadow stone, forms a hollow quadrangle of about 160 feet square, connected with the Chancellor Green Library by a delivery room of 50 by 20 feet. It is fitted with modern improvements in heating, ventilation, stacks, electric elevators, interior telephone, etc., and has shelves at present sufficient for about 500,000 volumes. On the exterior of the western tower gateway are statues of President Witherspoon and President McCosh, James Madison, class of 1771, fourth President of the United States; Richard Stockton, class of 1748, and Oliver Ellsworth, class of 1766, second Chief Justice of the United States Supreme Court.

The Central Collection

The general collection which occupies the united buildings consists of 183,446 volumes and about 50,000 unbound periodicals and pamphlets. It includes, in addition to those already mentioned, the following special collections:

Special Collections

The Morgan Collection of Virgils, presented by Junius S. Morgan, Esq., '88. 659 volumes. Location: exhibition room.

The Pierson Civil War Collection, presented by John S. Pierson, Esq., '40. 4,671 volumes; 1,500 bound periodicals; 2,500 unbound periodicals; including also several thousand clippings. Location: stack, fourth floor.

The Princeton University Collection, including the large collection of Princetoniana presented by Professor William Libbey, '77. 3,585 volumes. Location: stack, fourth floor.

The Class of 1875 Library of English Poetry and Drama.

1,058 volumes, distributed among the collections relating to these subjects.

The Garrett Collection of Oriental Manuscripts, consisting of 1,770 documents, chiefly in Arabic, deposited for the present in the University Library. This collection is most exhaustive and includes books on law, medicine, mathematics, natural sciences, poetry, history, biography, geography, travels, rhetoric, grammar and lexicography, as well as works on the Mohammedan religion and the exegesis of the Koran. Custodian: Dr. Littmann. Location: northwest corner, second floor, left.

Special collections, other than of books or manuscripts, are:

The Garrett Collection of Coins, deposited in the University Library by Robert Garrett, Esq., '95. This collection, embracing also specimens from many foreign countries, contains an unusually fine series of American coins. In addition to the coins that have been used for money the collection includes many medals commemorative of notable historic events and persons.

The Hutton Collection of Death Masks, presented by the late Laurence Hutton. 74 masks. Location: exhibition room.

The William Horace Morse Collection of Japanese netsukes, comprising 475 examples, the great majority of which are in ivory, a gift from the family of the late William H. Morse. Location: exhibition room.

Seminary and Other Special Libraries

Certain rooms in the Main Library Building are available for the use of seminaries organized under the rules of the Faculty for "the development among our higher students of independent scholarly ability by extensive advanced study and training in the methods of original research." Several rooms have been assigned and provided

with special libraries, partly by loan from the main collection, but chiefly by special endowment and purchase. The following have been established:

The Philosophical Seminary. Founded by Mrs. C. B. Alexander (ethics), and by the Class of 1882 (logic and metaphysics). 1,719 volumes; 1,262 theses. Location: southeast corner, second floor.

The Economic Seminary. Founded by the Class of 1888. 1,314 volumes. Location: northwest corner, first floor.

The Seminary in Archæology and Ancient Art. Founded by various alumni and friends. 617 volumes. Location: southeast corner, second floor.

The Classical Seminary. Supported by a friend of the University. 5,115 volumes; 20,360 theses. The Classical Seminary at present occupies five rooms in the southwestern corner of the building.

The English Seminary. Founded and supported by Charles Scribner, Esq., '75. 1,473 volumes; 674 theses. Location: northwest corner, second floor.

The Romance Seminary. Founded by the Class of 1890. 1,561 volumes; 178 theses. Location: southeast corner, first floor.

The Mathematical Seminary. Founded by the Hon. John L. Cadwalader, '56; Professor M. Allen Starr, M.D., LL.D., '76; David B. Jones, Esq., '76; Thomas D. Jones, Esq., '76; Chandler W. Riker, Esq., '76; and the Hon. Adrian Riker, '79. 1,796 volumes; 920 theses. Location: northwest corner, second floor.

History. Founded by Mr. and Mrs. M. Taylor Pyne, in memory of Robert Stockton Pyne. 1,865 volumes. Location: southeast corner, second floor.

Germanic Languages. Founded by the Class of 1891, and including the library of the late Professor Willard Humphreys. 1,974 volumes; 127 theses. Location: southeast corner, first floor.

Semitic Languages. 713 volumes. Location: northwest corner, second floor.

Latin Pro-seminary. 365 volumes. Location: stack, fifth floor.

Department Libraries

These are libraries selected from the general collection and kept in proximity to the corresponding laboratories. The following are organized:

Astronomy; containing at present 1,174 volumes and 519 theses. In the Working Observatory.

Biology; supported by Charles W. McAlpin, Esq., '88. 975 volumes, 106 theses. In the Biological Laboratory.

Botany; containing 508 volumes. In the School of Science Building, second floor.

Geology and Paleontology; 2,305 volumes. In Nassau Hall, second floor.

Engineering, including the Class of 1878 Library of Engineering; 853 volumes. In the School of Science Building, second floor.

Use of the Library

The Library is open from 8 A.M. until 10 P.M. during term time, and from 9 A.M. until 1 P.M. in vacation.

Books may be drawn by all officers and students of the University and Theological Seminary, and by any person properly introduced. The number of books which may be taken is limited to three in the case of students, with the exception of Seniors, who may take five. Officers, Fellows, and graduate students may take any reasonable number. Books may be kept by undergraduates for two weeks, by Fellows and graduate students for four weeks, and by officers for any reasonable time. All books may be renewed when due, unless wanted by some one else.

Fines are charged at the rate of two cents a day on all

books kept overtime. If an overdue book is wanted at the Library for any reason, it may be sent for and a charge of ten cents for messenger made. Postal cards are sent as a reminder of books overdue only when the books are wanted by others. No books may be drawn while there are unpaid fines.

The Hall Libraries

The two literary societies—the Whig and the Cliosophic—have catalogued libraries of more than 10,000 volumes each, and the religious society, the Philadelphian, one of 1,000 volumes.

The Theological Seminary Library

The Library of the Princeton Theological Seminary contains 73,000 volumes, which are distributed in two buildings. The one, the general library, is open to the students of the University for consultation and loan of books on Saturday, from 9 A.M. to 1 P.M., and on every other weekday from 9 A.M. to 1 P.M. and from 2 to 4 P.M. The other, the reference library, is open on every weekday from 9 A.M. to 1 P.M., from 2 to 5 P.M., and from 7 to 10 P.M.

Summary of Libraries

University Library,	183,446
Hall Libraries,	21,000
Theological Seminary Library,	73,000
Total (exclusive of pamphlets and duplicates),	277,446

SOCIETIES

Literary Societies

The Cliosophic and American Whig Societies were founded prior to the Revolution. They are conducted by the undergraduates, but also include in their organization graduates and officers of the University. Each possesses a valuable library of over 10,000 volumes. The old halls in which they were accustomed to meet, becoming too small for their accommodation, were removed about 1890, and large and handsome buildings of white marble were erected near the old sites. Both Societies pursue courses of literary exercises, award numerous prizes for orations, essays, and debates, and grant diplomas to their respective graduates.

A generous competition for University honors has always prevailed between them. On the evening before Commencement representatives of the Societies from the Senior class engage in a public debate. During Commencement week representatives from the Junior class engage in a competition in oratory. The details respecting the Lynde debate and Junior orations will be found on later pages.

The Philadelphian Society

The Philadelphian Society is an institution of undergraduates for the promotion of the religious interests of the University, particularly of the members of the Society. It was founded in 1825. Devotional meetings are held every Thursday evening, and under its auspices the devotional study of the Bible and foreign missions is facilitated. It has the exclusive use of two buildings, Murray Hall,

erected in 1879 from a bequest left for the purposes of the Society by Hamilton Murray, of the class of 1872, contains an auditorium for public worship and a library. Dodge Hall, connected with Murray Hall by an ambulatory, is the gift of the late Mr. William E. Dodge and his son, Cleveland H. Dodge, of the class of 1879, in memory of the late W. Earl Dodge, of the same class. It contains four rooms for the religious meetings of the four classes, a handsomely furnished reading room, containing current periodicals and recent fiction, committee rooms, and the apartments of the Secretary. The privileges of this building are extended to all the students of the University irrespective of their relation to the Philadelphian Society.

The St. Paul's Society

The St. Paul's Society, a religious organization composed of those of the undergraduates of the University who are members of the Protestant Episcopal Church, was founded in 1875. To its care is intrusted a number of mission chapels wherein members of the Society, licensed lay readers by the Bishop of New Jersey, conduct services every Sunday. Under its auspices a course of sermons is delivered annually in Trinity Church. Bible classes are held in Dodge Hall, and meetings are held in an attractive room provided for the use of the Society by Trinity Parish, in the Potter Memorial House, situated on Mercer street, adjoining Trinity Church. The annual election of officers is held on the fourth Wednesday of April.

MUSEUMS

The E. M. Museum of Geology and Archæology

This Museum, occupying the central and eastern wings of Nassau Hall, contains collections which are distributed in three general departments of geology (including mineralogy), paleontology, and archæology. Their arrangement is especially adapted to the purposes of comparative study.

In the Geological Department a special room contains a unique collection of over 5,000 specimens of erratic boulders and drift materials from Switzerland. There is also a special room devoted to the typical rocks and fossils of the State of New Jersey. A collection of the typical rocks of the State of New York represents the series as described in the Geological Survey of that State.

There is in this department a large collection of minerals, chiefly crystals, containing about 2,600 specimens, bequeathed to the University by the late Archibald MacMartin of New York. The perfection of the specimens, and the number of localities represented in each family, make this collection one of special value.

Paleontological Department.—The upper or eastern hall contains the main collection; on the platform are the skeletons of a Mastodon, an Irish Deer, a Cave Bear, and some of the extinct birds of New Zealand; also the skulls of *Uintatherium* and a remarkably complete skeleton of *Cervalces*. There are mounted casts of the gigantic reptiles and mammals of the secondary, tertiary, and quaternary ages. Surrounding the room is a very perfect collection of vertebrate and invertebrate fossils from Europe and America,

illustrating the principal organic forms of all the geological epochs. The typical fossils selected agree, as far as possible, with those mentioned in Dana's *Geology*, as characteristic of different geological periods. Included in this series are the fine Eocene and Miocene fossils, many of which are type specimens, procured in the West by the various Princeton collecting parties. There is also a series of fossil insects and plants from Colorado, most of which are also types. Altogether the number of fossils, not counting duplicates, is 15,000.

ARCHÆOLOGICAL DEPARTMENT.—In the central part of Nassau Hall are relics of the Swiss lake dwellings, and numerous implements of stone and bronze from Denmark; also several hundred flint instruments from most of the classical localities of the palæolithic and neolithic ages of France.

America is represented by the pottery and human remains of the mound builders, by several hundred specimens of Mexican and Peruvian pottery, and by a number of recent Indian relics. The interesting ethnological collection of objects, chiefly from Alaska and New Mexico, which Dr. Sheldon Jackson presented to the Theological Seminary of Princeton, has been transferred to this Museum by the Trustees of that institution, with the consent of the donor. There is also a series of models of the cliff-dwellings and pueblos of the Southwest, executed under the direction of Dr. Hayden.

Below the eastern hall are the lecture and working rooms.

THE MUSEUM OF BIOLOGY

The biological collections have been chiefly made from the endowment fund of the John C. Green School of Science. There have also been many smaller donations to the Museum from time to time. The collections are placed in the large upper hall of the School of Science building, and are at

present especially rich in osteological specimens. On the same floor are the laboratory and working rooms. The collection of vertebrates includes a large number of mounted and disarticulated skeletons of mammals, reptiles, birds, and fishes. Among the invertebrates are a series of ascidians, echinoderms, molluscs, crustaceans, insects, worms, corals, sponges, and microscopic preparations of small forms. Students may apply to the Curator for access to the catalogue and cases containing the skeletons.

The Herbarium is on the second floor of the School of Science building, and is arranged as a museum of the botanical collections, also as a working laboratory for students. The plants are classified according to the *Pflanzen-familien* of Engler and Prantl, and include specimens from the different sections of the United States, and from South America, Europe, and Australia. There are extra specimens for laboratory use and dissecting, together with compound microscopes, reagents, anatomical instruments, section cutters, models, diagrams, and books of reference; and the reference library of the late Professor Leo Lesquereux, presented to the University by Mr. P. W. Huntington of Columbus, Ohio.

The recent accessions to the Botanical Museums include a series of Patagonian Musci, collected by Mr. Per Dusén, and the *Flora de Filipinas*, in six folio volumes, of which two volumes are of colored plates of the native plants of the Philippine Islands.

Through the courtesy of Professor W. B. Scott, and of Professor McClure, the Zoological Museum has received interesting skeletons, including species of *Caulacodus*, *Lagidium*, *Cœlogenus*, *Cavia*, *Myocastor coypus*, *Oryx leucoryx*, *Taurotragus oreas*, *Zædyus ciliatus*, and two fine specimens of the sea-lion (*Arctacephalus*), one from California and the other from Patagonia. Professor McClure has also presented a young specimen of the tiger (*Felis tigris*).

DEPARTMENT OF ORNITHOLOGY.—The ornithological collections of the University form a department of the Museum of Biology. Starting with a representative local collection of the birds of New Jersey, which are mounted and on exhibition in the halls of the Museum, these are supplemented in the laboratories by the following groups of unmounted birds, which show the relations of the local collection to the avifauna of the world at large. A North American collection, a European collection, an Australian collection, an Indo-Asian collection, a South American collection. There are in all some sixteen thousand individuals.

The South American collection, for which the Hatcher Expeditions to Patagonia are largely responsible, owing to the interest of Mr. John W. Garrett, '95, of Baltimore, was materially augmented by Professor William B. Scott, during his stay in Argentina. Very advantageous exchanges with the Museo La Plata were made. Through the liberality of friends of the University, valuable ornithological material was purchased from S. Pozzi, Esq., of La Plata. These collections are especially valuable in view of the extensive work assumed by the University on the fauna of Patagonia. The additions to the Department of Ornithology from this source alone aggregate some eight hundred bird skins.

The collections are further supplemented by some four thousand sets of eggs, most of them in nests, as well as much alcoholic material and many skeletons.

The department received in exchange during the year 1900 from the British Museum of Natural History some two thousand birds. These represent parts of the avifauna of Europe, India, and Asia, and aid materially in rounding out the existing collections. Many minor gifts have been received from alumni, particularly representatives of game birds from many localities in North America.

All this material affords facilities for special study in

factors and problems, such as individual variation, geographical distribution and variation problems, migration and the like. Graduate students will find special facilities for work in the laboratories connected with this department.

The Museum of Historic Art

The upper story of the Museum contains a library for classical and mediæval archæology, collections to illustrate the history and processes of the graphic arts, reproductions of Greek and Roman coins and gems, specimens of Greek and Roman marble, a collection of bronze medals and casts of ivories from the Roman to the Gothic period, and a series of casts from the Arch of Trajan at Beneventum. The architectural library of the late Frederick Barnard White has recently been added.

In the central story the Trumbull-Prime collection has been rearranged and new cases have been added. The purpose of this collection is to illustrate the history of pottery and porcelain. Egypt is represented by sepulchral figurines, beads and amulets; Phœnicia by numerous Cypriote vases; Greece, Etruria, and Southern Italy by Corinthian aryballoi and fine examples of larger vases of black-figured and red-figured types. The Orient is further illustrated by specimens from Persia, China and Japan; South America by Peruvian pottery. The collection is richest in examples of European wares, to which England, France, Germany, and Holland are the chief contributors, but Italy, Russia, Sweden, and Switzerland are also represented. The small room on this story contains the Livingston loan collection of pottery. This collection is noteworthy for the illustrative material it furnishes for the early history of our country.

The staircase and basement are occupied by a carefully selected collection of casts of ancient and mediæval sculpture, presented by the Class of 1881 at its decennial. This collection was formed to illustrate the history of ancient

sculpture in Egypt, Babylon and Assyria, Persia, Greece and Rome, and of mediæval sculpture in Italy, France, and Germany. There has been recently added from the same fund a collection of casts of renaissance sculpture.

The Museum is open to visitors from 8 A.M. to 6 P.M.

LABORATORIES AND APPARATUS

Psychological Laboratory

The laboratory for experimental psychology was founded and equipped for work at the beginning of the academic year 1893–94. It occupies a suite of rooms on the third floor of the west wing of Nassau Hall, on the south side, opposite the histological laboratory. It comprises five rooms, *i.e.*, a dark-room, three rooms for research work, and a room fitted up for demonstrations and lectures. The equipment consists primarily of the standard pieces of apparatus for demonstration and research, together with illustrative models and charts, and is added to as the development of the department in special directions makes it necessary. Professor Allan Marquand has presented to the laboratory both models of his well-known "logical machine" and a number of volumes. A select library of reference books and bound psychological periodicals is connected with the laboratory. Attention may be called to the very complete list of current journals in psychology, philosophy, and neurology, which are on file in this library. Researches from the laboratory are published in the *Princeton Contributions to Psychology*, now in the fourth volume.

Physical Laboratory and Apparatus

The physical laboratory is fitted up with tables and other arrangements to accommodate about forty students at once, though the classes usually work in small divisions, to facilitate the arrangement of the course in logical order and to avoid interference with the hours allotted to other courses.

The collection of apparatus for lecture demonstrations is a very good one, but as far as practicable the equipment consists of instruments which are serviceable not only in the lecture courses, but in the practical laboratory work. The collection contains most of the standards and instruments of precision that are needed by the advanced student or investigator. The shop connected with the School of Science is at the service of the department of physics, and apparatus needed for special researches may be constructed there.

Buildings and Apparatus of the Department of Electrical Engineering

The magnetic observatory is a brick building without iron in its construction, situated on McCosh Walk, in a position in which it is, as far as possible, free from the disturbing influences of large masses of iron.

The laboratory is in the basement, where permanent piers, for the installation of instruments, are provided.

Among the instruments in the laboratory which deserve mention are a large physical balance, Thomson's quadrant and other forms of electrometers, specially constructed galvanometers by Edelmann, Hartmann, Nalder Brothers and Elliott, Thomson's current balances, two large resistance boxes adjusted by Anthony, Post-office boxes, megohm box standard condenser, standards of induction and of resistance. Besides these there is a full outfit of galvanometers, voltmeters, ammeters, and all other instruments needed in technical work or in exact investigation.

The dynamo building is connected with the School of Science building. The motive power for the machinery is furnished by a sixty horse-power boiler and a Ball engine. The dynamo plant consists of a Westinghouse alternate generator with a full set of transformers, a Westinghouse polyphase generator, a Westinghouse rotary converter, Mather, Edison, Brush arc, Eickemeyer and Gramme gen-

erators, a machine constructed in the shop of the School of Science, Brush, Eickemeyer and other motors. With these machines is a complete outfit of accessories, and a large rheostat of German silver used in testing. Arc and incandescent lamps are so arranged that the various systems of distribution may be studied.

The dynamo building is connected with the magnetic observatory by heavy copper wires, and by underground cables, so that the instruments of the magnetic observatory are available for experimental work with the dynamos. Four sets of storage batteries are also connected with the plant.

In addition to the above-described equipment, the plant of the University Power Company for heating and lighting the University buildings, is available for purposes of experimental study in which the quantities to be measured are of the order of those met with in commercial applications. Their plant contains four 250 horse-power boilers, for power and steam heating; two 200 K. W. and one 100 K. W. direct connected alternate current generators; one motor-driven exciter and steam turbine-driven exciter; the station switch-board and a special experimental switch-board. This last is entirely under the control of the Department of Electrical Engineering. The entire equipment of generators, transformers, motors, etc., is available for the use of the Department.

Chemical Laboratories

All the courses in chemistry and in mineralogy are conducted in the chemical building, which is of fireproof construction, well lighted and ventilated.

The top floor of the building is mainly devoted to laboratories for students in the various courses of general, analytical, physical, and organic chemistry, with private laboratories, weighing room, and storerooms. Each student

has a separate desk, provided with water, gas, suction for filter-pump, and sink.

On the second floor are two large lecture-rooms, cabinets for specimens and lecture apparatus, and several private laboratories.

In the basement are rooms for experiments which cannot conveniently be undertaken in the laboratories for general students, blowpipe and assay laboratories, a private laboratory, a furnace room, a mineral cabinet, janitor's room, storerooms, and battery.

Mineralogical Collections of the School of Science

There are two cabinets of minerals. The principal one contains over five thousand specimens, embracing nearly every mineral species. Smaller cabinets, with labeled and unlabeled minerals, are provided for practice with the classes.

There is also a collection of specimens of typical rocks, together with a large number of Fuess's rock sections, as well as sections from other sources, for the study of lithology.

The department is provided also with section cutters, grinding lathes, and other appliances for the special study of minerals and rocks; including a complete Groth's polarizing apparatus with goniometer, a large Babinet goniometer, Norremberg's polarizing apparatus, Rosenbusch's microscope, and minor apparatus. A fine suite of copper minerals, malachite, azurite, chrysocalla, etc., from Bisbee, Arizona, was last year presented to the cabinet by the Copper Queen Consolidated Mining Company, through Mr. G. D. Van Arsdale, of the class of 1896.

Histological Laboratory

This laboratory is situated on the upper floor of the west wing of Nassau Hall. The western room serves as a lecture

hall. On the north side of this room there are fourteen tables. There are lockers for forty-two students.

Materials for class work and specimens are prepared in the assistant's room. Here, also, is kept a complete supply of chemicals, stains, and mixed reagents. The laboratory is supplied with the following apparatus: three paraffin baths, three microtomes, a centrifuge, an air pump, aquaria and cages for keeping living material, and a full assortment of glassware.

East of the assistant's room is the instructor's room, where the collections are kept. These consist of a large general collection of slides, the class collections from which the specimens for each exercise are drawn, and the collection of recent material from the main groups of the animal and vegetable kingdoms.

East of this room are two rooms for advanced students and fellows engaged in research work.

The laboratory is provided with Zeiss, Leitz, and Reichart microscopes, and a Zeiss projective apparatus.

Class of 1877 Biological Laboratory

This building is situated at the east end of Dickinson Hall. It was presented to the University by the alumni of the Class of 1877 at their decennial reunion. It is designed for the advanced practical and experimental courses in comparative anatomy and embryology. The main morphological laboratory, upon the second floor, is equipped for the instruction of undergraduates. This room has recently been fitted up with exhibition cases which, at present, contain about five hundred mounted preparations illustrating the comparative anatomy of vertebrates. New preparations are constantly being added to the collection through the efforts of a skillful preparator.

The first floor comprises the embryological laboratory, intended for the use of University students engaged in

research. The basement is designed for aquaria. The laboratory is open to students during the day from 8 A.M. to 5 P.M.

Paleontological Laboratory

This laboratory has been fitted up in Nassau Hall to provide for practical instruction in the courses in paleontology. Each student has a table with drawers, etc., for his own use, where the study of fossil forms can be conveniently carried on. The very extensive collections of the geological museum furnish ample material for the general course in paleontology and stratigraphy, as well as for the purposes of research. A series of diagrams, maps, and models is provided, as are also microscopes and prepared slides for the examination of the minute structure of various extinct forms, both animal and vegetable.

For advanced students engaged in original investigations, there are private rooms available.

Civil Engineering Laboratory and Apparatus

The laboratory is used in connection with the instruction in experimental mechanics and the planning and construction of engineering works, and contains a torsional testing machine; a wire and cement tester; various kinds of current meters and water gauges; a Worthington water meter; a contrivance for determining the hydraulic slopes within earthen retaining banks; a flushing tank; a reaction wheel and other minor pieces of hydraulic apparatus; a double-acting steam pump; a locomotive link and valve motion; a 10 horse-power compound engine with condenser, indicators, gauges, and a Prony brake; and a 25-foot iron working model of a single track railroad bridge, with a complete outfit of false-works and other appliances for its erection, designed especially for this institution.

The illustrative apparatus of the laboratory comprises

rail sections and joints; specimens of the products of iron and steel mills and other building materials; a Sturtevant blower; models of water wheels, of trestles, of the details of iron bridge and roof joints, and of vaults and arches. A collection of lantern slides, especially selected for use in the class-room, has been provided, and includes a large number of views, in detail, of the East River suspension bridge at different stages of its progress, and of other structures.

The instruments provided for the course in geodesy represent the work of twelve different firms of high repute, care being taken to avoid the duplication of instruments by the same maker, and include a 12-inch geodetic transit, a large plane-table with telescopic alidade and a telemeter; engineer's, mining, and solar transits; wye and dumpy levels; surveyor's compasses; mercurial and aneroid barometers; sextants; heliotropes; various forms of linear measures; and a large assortment of reconnoitring instruments.

ATHLETIC GROUNDS AND BUILDINGS

The University Field

This field, which is large enough for two football games to be played simultaneously, is the scene of all University athletic contests and games held in Princeton. The entrance gateway is the gift of Mr. Ferris S. Thompson, of the class of '88. Besides the baseball ground and football field, there are a 220-yard straightaway and a quarter-mile cinder track and the following buildings: (1) The University Athletic Clubhouse, the gift of Prof. Henry F. Osborn, class of 1877, containing training quarters, dining-room, parlor, bedrooms, baths, etc., and a trophy room, which is open to visitors. (2) The Cage for indoor winter practice, a well-lighted brick structure with a clear floor space of 60 x 140 feet. (3) The Field House, containing dressing-rooms, lockers, and baths for the University and visiting teams. (4) The Grand Stand, the gift of Mrs. John J. McCook of New York. The clock in the peak of the roof is the gift of the Glee Club of 1890. (5) The Open Stands, the result of alumni subscriptions.

The Brokaw Field

This field was provided by the alumni for the benefit of undergraduates who are not members of the University teams. On a terrace are the University Tennis Courts, and above them is the Brokaw Memorial Gateway and Building, erected in 1892 by Mr. I. V. Brokaw of New York, in memory of his son Frederick Brokaw, of the class of 1892, who lost his life at Elberon, N. J., in 1891, while attempting

to rescue a drowning girl. The building contains dressing-rooms, shower-baths, and lockers for several hundred men. A wing contains a porcelain swimming pool 100 feet long by 25 feet wide.

Class of 1886 Memorial Building

This building, erected by the Class of 1886, upon an elevation overlooking the Princeton golf course, commands an extensive view of the adjacent country and in design is admirably in keeping with the surroundings.

The building contains ample provision in the way of bath and locker rooms, reception rooms, etc., designed for the use of members of the Princeton Golf Club, with dormitory and kitchen facilities, to be devoted to the use of the members of the Class of 1886.

The Princeton Golf Club

Students of the University are eligible to membership in the Princeton Golf Club, whose new eighteen-hole golf course covers 225 acres and adjoins the University property.

PART VIII

EXPENSES, ALLOTMENT OF ROOMS, UNIVERSITY BILLS, PRIZES, SCHOLARSHIPS, REMISSION OF TUITION, AND CHARITABLE FUNDS

EXPENSES

Board, 36 weeks	$3.00 to $7 per week.
Washing, 36 weeks	60 cents per week.
Tuition and Public Room fee, Academic	150.00 per annum.
Tuition and Public Room fee, School of Science	160.00 per annum.
Tuition, extra for each chemical course involving laboratory work, if taken by an Academic student	10.00 per term.
Room rent (according to location of room)	18.00 to $175 per annum.
Heat, fixed charge (according to location of room)	8.00 to $30 per annum.
Light, fixed charge (according to location of room)	9.00 to $18 per annum.
Infirmary fee	7.00 per annum.
Gymnasium and Swimming Pool fee	7.00 per annum.
Examination fee, payable at time of taking entrance examinations (see p. 69)	5.00
Graduation fee, payable second term, Senior year	12.00

For other special courses than that in Analytical Chemistry arrangements may be made upon consultation with the professor in charge.

Apparatus Deposits.—Students pursuing certain courses in the School of Science are required to make deposits to pay for apparatus injured or destroyed. At the end of the term any excess in favor of the student is placed to his credit on the bill for the next term. The deposits in the courses are: Chemistry—Sophomores and Juniors, $10; Seniors, $15. In Geodesy—Freshmen, second term, $10; Sophomores, second term, $15; Juniors, both terms, $10; Seniors, first term, $5.

Students taking any of the courses in Graphics will require a drafting outfit costing from $18 to $25.

ESTIMATE OF ANNUAL EXPENSES

Academic Department

Minimum, medium, and maximum estimates of the necessary expenses for one year of a student occupying an unfurnished room in a dormitory have been prepared as follows:

	Min.	*Medium*	*Max.*
Board, 36 weeks, at $3.00 to $7.00	$108.00	$180.00	$252.00
Washing, 36 weeks at 60 cents per week	21.60	21.60	21.60
Tuition and Public Room fees	150.00	150.00	150.00
Infirmary fee	7.00	7.00	7.00
Gymnasium and Swimming Pool fee	7.00	7.00	7.00
Room rent	18.00	60.00	175.00
Heat	8.00	20.00	30.00
Light	9.00	14.00	18.00

Books, clothes, furnishings for rooms, incidentals, and travelling and vacation expenses have not been included in these estimates.

RULES GOVERNING THE ALLOTMENT AND RENTAL OF ROOMS

(DECEMBER, 1901)

1. Rooms shall be assigned for occupation during the following academic year between the 15th of May and the 1st of June of each year.

2. This assignment shall embrace:

a. All rooms occupied by students whose connection with the University will terminate at the end of the academic year.

b. The rooms of all Seniors, whether with room-mate or not (unless the room may be retained by a graduate or for a brother, as elsewhere provided in the rules).

c. All rooms for which the lease has not been properly renewed.

3. An allotment may also take place at the close of the first term of each academic year for the purpose of assigning such rooms as may then fall vacant.

4*a*. The assignment of rooms shall in all cases not herein specially excepted take place in such a manner that specific rooms shall be assigned by lot.

b. The rooms to be assigned shall be classified according to the amount of their rental in seven groups as follows:

(1) The first group shall embrace rooms whose rental is from $18 to $36 inclusive.

(2) The second group shall embrace rooms whose rental is from $40 to $66 inclusive.

(3) The third group shall embrace rooms whose rental is from $70 to $100 inclusive.

(4) The fourth group shall embrace rooms whose rental is from $105 to $140 inclusive.

(5) The fifth group shall embrace rooms whose rental is from $150 to $180 inclusive.

(6) The sixth group shall embrace rooms whose rental is from $200 to $240 inclusive.

(7) The seventh group shall embrace rooms whose rental is from $250 to $300 inclusive.

c. The applicants for rooms shall be divided into corresponding groups, each applicant being required to inform the Treasurer in writing before the 10th of May, or the 20th of January, as the case may be, both of his intention to enter the drawing and of the group in which he wishes to be placed.

Every applicant for a room shall agree beforehand, and shall be required, to take the room which may be assigned to him by lot in the group in which he has made application.

d. Each drawing shall begin with the first group and proceed from that group through the other groups successively in the order given above. Any applicant who does not obtain a room in the group to which he first asked to be assigned, may be allowed to draw in any higher group.

e. If there be any rooms remaining unassigned after a drawing, such rooms may be assigned by subsequent allotment, at such time before the end of the year or of the term as the Treasurer may appoint; such supplementary allotment to be made under the same rules as the principal allotment, with this exception, that the rooms disposed of by means of it may be classified as above or not, at the discretion of the Treasurer.

f (*a*). Priority in the drawing shall be determined by the length of time the applicants have been members of the University. The first drawing shall include the names of all applicants who have been members of the University for more than one year. A second drawing shall include the

names of all applicants who have been members of the University one year or less.

f (*b*). If the application for a double room shall be signed by students who have been members of the University different lengths of time, it shall be classified and placed in the drawing in which the student who has been a member of the University the shortest length of time would be placed.

g. New students shall have choice of any rooms remaining vacant at the time of their entering upon residence, in the order of their application after undergoing the entrance examinations for full standing, upon condition of immediately signing the lease required in all cases. [See Rule 5*a*.][1]

h. Double rooms shall be separately classified and allotted in accordance with the above regulations. Only such suites as consist of a study and two bedrooms shall be considered double rooms within the meaning of this clause. No double room shall be assigned to a single individual, nor shall it be within the privilege of any single individual to draw for a double room. Every application for a double room must give the names of two persons who intend to occupy the room together and who undertake to be jointly responsible for the rent of the same.

i. Whenever for any reason one of the occupants of a double room is permitted or obliged to cancel his room lease, the remaining occupant must vacate the room at the end of the current academic term, unless he agrees to pay the whole rent, or provide a room-mate who shall join him in signing a new lease for the remainder of the academic year.

5*a*. The tenure and liabilities of those to whom rooms are assigned under these rules shall be the tenure and liabilities expressed in the following lease, which must be signed in the case of each room allotted by the student who

is to occupy it, and by his parent or guardian. This lease must be signed and delivered to the Treasurer in each case within ten days of the allotment, except in the case of new students, provided for under Rule 4g.

This agreement, made the day of , 190 , between the Trustees of Princeton University and of , witnesseth, that the said Trustees of Princeton University do hereby lease unto the said Room No. in the Entry of , to hold for the academic year of , paying therefor during the said term unto the said Trustees of Princeton University the yearly rent of $ in two equal payments, to be made the one within the first four weeks of the first term of the academic year, the other within the first four weeks of the second term of the academic year.

And the said covenants to pay the said rent in the manner and at the times aforesaid, and to deliver up the said premises to the said Trustees of Princeton University or its legal representative at the end of said term in as good condition as the same now are or may be put into by the said Trustees of Princeton University, reasonable use and wear and tear thereof, and fire and other casualty excepted. The said lessee also covenants that he will not do or suffer to be done any damage in the leased premises, and that, if any damage beyond reasonable wear and tear be done, he will cause the same to be made good as soon as possible at his own expense, employing for that purpose the proper University workmen, and paying the cost thereof at once to the University Treasurer, it being understood that the damage here meant includes the breakage of glass and locks, whether by accident or design. The said lessee further covenants that he will not sublet the same or any part thereof, nor permit any other person or persons to occupy the same or any part thereof, nor make nor suffer to be made any alteration therein without the consent of the

said Trustees of Princeton University for that purpose in writing first had and obtained. And the said lessee further covenants that the said Trustees of Princeton University through their authorized representative may enter the said premises for the purpose of viewing or making improvements therein at any reasonable times in the daytime, or at any other time for the legitimate purposes of University discipline. This lease is made on the express condition that it may be terminated by said Trustees through their representative.

b. Any occupant of a college room may retain his room until the end of his undergraduate or graduate course, provided he annually notify the Treasurer of his intention of retaining it and sign a new lease before the 1st of May, otherwise his room shall be considered vacant and shall be included in the next allotment. In case an occupant of a double room be left without a room-mate at the end of the academic year, he may renew his lease upon condition of naming another student of the University who will become joint lessee with him for the following year, unless the room-mate who leaves is a Senior or a fourth year special. It shall also be the privilege of any occupant of a college room to renew his lease at the end of his own tenure in the name of his brother, when that brother is to enter the University immediately.

c. The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of the occupant of a college room to sell or transfer, directly or indirectly, his right of occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be forfeiture of the rooms by the new lessee.

d. The occupant of a college room shall deposit with the Curator the sum of 25 cents for each key to his room that may be furnished him by the University; and all

amounts paid under this clause shall be refunded upon return of the key or keys furnished.

6. Students who leave the University at the end of the University year, and also those who change from one dormitory room to another, or from a dormitory room to a private house, must within two weeks after Commencement day remove all furniture and other property from the rooms which they vacate.

Students who make such changes at the end of the first term of the University year must remove their furniture at once. Furniture not removed by the owners will be removed by the University authorities at the owners' risk and expense.

7. No exchange of rooms shall be allowed unless formally sanctioned in writing by the Treasurer; and then only upon terms explicitly stated in a written application signed by both parties to the proposed exchange, and not in contravention of the spirit of these rules. Such applications shall be kept on file in the Treasurer's office.

8. When rooms are vacated during a term the rent shall be paid until the end of the term. An occupant of a college room who expects to be absent on leave for a term may be released from the obligations of his lease, provided he notify the Treasurer before the beginning of the term during which he expects to be absent, and give up the room; but no abatement or drawback of room rent shall be allowed for any period less than a term, except in special cases to be stated in writing, and by permission of the Treasurer.

9. The Faculty of the University is directed to suspend or expel every student that may be found guilty of breaking or evading these rules or of injuring or interfering with the person or property of his successor in a room; or of aiding or abetting another in such transgression, evasion, injury, or interference. The Faculty and all its officers are instructed to take the utmost pains, by ordinary or extraordinary means, to discover such offenders and prevent such offences.

The Faculty is further instructed to report, with the evidence discovered, the name of any graduate or outsider that may be guilty of such offences to the Committee on Grounds and Buildings; and said Committee is authorized and directed to procure legal counsel and when the evidence seems to justify it to take appropriate legal proceedings against any and every offender before a court of law.

UNIVERSITY BILLS

All University expenses, including board, must be paid in advance to the Treasurer of the University.

Students are required to call at the Treasurer's office in the course of the first ten days of each term, and to give information as to their place of boarding, etc., so that their bills can be made out. All bills must be paid within the first four weeks of the term. Failure to comply with this rule will deprive the student of the privileges of the University until payment is made, unless excused by special vote of the Faculty.

When a student enters the University before the middle of the term, he shall pay in full the usual charges for that term, with the exception of the charges for board; if he enter after the middle of the term, he shall pay one-half. For board he shall pay in proportion to the time.

When a student leaves the University, whether voluntarily or by dismissal, before the middle of any term, one-half of the charges for tuition and public rooms for that term shall be refunded. But in the case of temporary absence and subsequent return, although the absence be for more than half a term, no such rebate shall be granted.

When a student is dismissed from the University for any cause, the advance deposit for board, heat, and light, beyond the time of dismissal, shall be refunded to his parent or guardian.

When at the end of the first term the amount of the advance deposit proves to be in excess of the sum required to defray the board or room bills of any student, the excess

shall be credited on his bill for the next term. At the end of the academic year the amounts overpaid by the members of the *graduating class* for board, room rent, heat, and light shall be refunded by the Treasurer to the student's parent or guardian. The parent or guardian of *every undergraduate* will be advised of the amount of excess to the credit of his son or ward, and such amount will be *carried over to his credit on the bill of the first term of the following year*. In case of withdrawal or dismissal from the University of any undergraduate at the end of the college year, such excess will be refunded by the Treasurer to the parent or guardian, when informed by the Clerk of the Faculty that such undergraduate has been withdrawn or dismissed from the University.

PRIZES

Alexander Guthrie McCosh Prize

The interest of $1,500 will be given annually to that member of the Senior class who shall write the best essay in philosophy, including psychology, logic, metaphysics, and the history of philosophy. The subject of the essay for the present year will be, Heredity. It must be handed in on or before June 1.

The Lynde Debate Prizes

Three prizes—the income of $5,000, contributed by Charles R. Lynde, Esq.—will be awarded by a committee, appointed by the Faculty, to the three successful competitors in a debate on the Tuesday evening preceding Commencement. The competitors are six members of the Senior class—representatives of the Literary Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

Baird Prizes

Through the liberality of Charles O. Baird, Esq., the following prizes, representing the income of $6,000, will be given to those who excel in the oratorical exercises of the Senior class, viz.: The Baird Prize of $100 to the best speaker of those who have ranked among the first six writers in any two of the three departments of English literature, rhetoric, and oratory; a prize for oratory of $50 to the best speaker, exclusive of the Baird Prizeman, of those who, in the same departments, have ranked among

the first twelve writers; a prize for delivery of $30 to the best speaker exclusive of the two just mentioned; also, a prize for poetry of $50; and two prizes of $40 and $30, respectively, for the best and second best written disputations.

Class of 1859 Prize

The interest of $2,000, given by the class of 1859, will be awarded to that member of the Senior class who shall write the best essay on Robert Louis Stevenson and pass the best examination on "The Tempest." The essay must be handed in on or before June 1st, and the examination will be held in June. The subject of the essay for the class of 1906 will be, John Ruskin.

George Potts Bible Prizes

The yearly interest of $1,000, given in 1867 by Mrs. Sarah A. Brown, expended in the purchase of two copies of Matthew Henry's Commentary on the Bible, will be presented to the best two Biblical scholars of the Senior class at the end of their course.

Lyman H. Atwater Prize in Political Science

This prize, being the annual interest on the sum of $1,000, contributed by the class of 1883, was instituted as a memorial of the Rev. Lyman H. Atwater, D.D., LL.D., Professor of Political Science. It will be given to that member of the Senior class who shall have passed the best examination and written the best thesis on some subject in political science, to be assigned by the professors in charge of the department of jurisprudence and politics.

The thesis must be ready June 1; the examination will be held on that day.

Frederick Barnard White Prize in Architecture

The late Mrs. Norman White established in memory of her son, Frederick Barnard White, of the class of 1883, a prize in architecture, yielding $50. The prize is open to the entire Junior and Senior classes and to special students who take a full schedule of studies. The subject of the essay for this year is, Polychromatic Decoration in Greek Architecture. The subject of the examination is, The Parthenon. The essay should be presented before June 1.

Theodore Cuyler Prize in Economics

The interest of $5,000, presented by Mr. C. C. Cuyler, of the class of 1879, will be given to that member of the Senior class who shall present the best thesis and pass the best examination in June on some subject in political economy, to be assigned by the professors in charge of that department. The subject for the thesis of 1905 will be, Taxation in the American Commonwealths from 1789 to 1850, and the examination will cover the Theory of Public Finance.

Class of 1869 Prize in Ethics

The annual interest of $3,000, given by the class of 1869, will be awarded to that member of the Senior class who shall pass the best examination in ethics and write the best essay. The essay to be presented on or before June 1. The subject of the essay for the class of 1905 will be, A Critical Examination of *Taylor's* Problem of Conduct.

C. O. Joline Prize in American Political History

The sum of $50 will be awarded annually at Commencement to that member of the graduating class who shall have maintained a creditable standing in the subject of American history, and who shall have submitted the best written dissertation upon some subject of American history, assigned

by the professor in charge of that department, and based in part at least, upon original investigation.

The dissertation must be at least 5,000 words in length and must be accompanied by a bibliography of the subject. Specific references to the sources used must be given throughout.

The prize shall be awarded by the professor or professors in charge of the department of American history.

New York Herald Prize

The yearly interest of $1,000, presented by Mr. James Gordon Bennett, will be given to that member of the Senior class or to the special student of satisfactory standing who shall have taken for both terms of Senior year at least two of the courses given by the department of history, politics, and economics, and at least one course in English literature for both terms, and who shall have presented the best thesis in English prose upon some subject of contemporaneous interest in the domestic and foreign policy of the United States government.

The subject for 1905 will be, The Effect of the Government of Colonies upon the Political Institutions of the United States. The thesis must be ready by June 1.

Wood Legacy

The sum of $150, the income of a legacy of Dr. George B. Wood, will be awarded to that member of the Junior class who shall stand highest for the Junior year.

Junior Orator Medals and Maclean Prize

Four gold medals, or books of equal value, will be awarded by a committee, appointed by the Board of Trustees, to the four successful competitors in an oratorical contest during Commencement week. The competitors are eight members of the Junior class—four from the Clio-

sophic and four from the American Whig Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

The Maclean Prize, founded by the will of the late Henry A. Stinnecke, consisting of the sum of $100, will be given to that one of the orators chosen by the Literary Societies from the Junior class who shall during Commencement week pronounce the best English oration.

The committee of judges will be composed of a professor of English and two graduates of the University not members of the Faculty.

Dickinson Prize

The Dickinson Prize, founded in 1782 by the Hon. John Dickinson, of New Jersey, Governor of Pennsylvania and Delaware, consisting of a medal of the value of $60 (or its equivalent in money), will be awarded to that member of the Junior class who shall write the best dissertation upon a theme in logic; the dissertation to be presented on or before June 1. The subject of the dissertation: The Theory of Judgment.

Class of 1876 Memorial Prize for Debate in Political Science

This prize is to be given annually by the class of 1876 to the successful contestant in a debate on a subject of current interest in American politics, to be held on Washington's Birthday, said prize to be the interest of $2,000. The competitors, four in number, one from each class, are to be chosen by a vote of their respective classes.

Class of 1870 Junior English Prize

Of the yearly interest of $1,500, one-half will be given to the best Old English scholar, and one-half to the best English literature scholar of the Junior Academic class.

Thomas B. Wanamaker English Language Prize

This prize, the yearly interest of $1,000, will be given to that member of the Junior Academic class who shall pass the best examination in English philology, and write the best thesis on some assigned topic therein.

Mary Cunningham Humphreys Junior German Prizes

Two prizes, of $25 and $15 respectively, established by the late Professor Willard Humphreys in memory of his mother, Mary Cunningham Humphreys, will be awarded to those members of the Junior class who, having taken the regular German course for at least two years, shall, at the close of the second term, pass the best examination on the work of the term and on the life of the author whose works have been the principal subjects of the year's study.

Stinnecke Prize

The Stinnecke Foundation was established in 1870 by the will of the late Henry A. Stinnecke, of the class of 1861, and was supplemented by a bequest received in 1876 from his aunt, Miss Maria Stinnecke. The income is divided between the Stinnecke Scholarship of $500 and the Maclean Prize of $100.

The Stinnecke Scholarship, of the annual value of $500, tenable during the undergraduate course, unless forfeited by neglect of study, "will be given to that person who, having entered the Sophomore class, shall pass the best examination at the opening of the session in September, 1905, in the Odes of Horace, the Eclogues of Virgil, and the Latin Grammar and Prosody, as well as the Anabasis or Cyropædia of Xenophon and the Greek Grammar." Students of the University who have been members of the Freshman class, as well as new students entering the Sophomore class, will be admitted to such examination. The

committee of examiners is appointed by the Board of Trustees.

Class of 1861 Prize

The interest of $1,200, given by the class of 1861, will be awarded to the member of the Sophomore class who shall pass the best examination at the end of the year on mathematics 21, 22.

Francis Biddle Sophomore Essay Prize

This prize, the yearly interest of $500, will be given to that member of the Sophomore class, not below the fourth group in his English studies, who, in the judgment of a committee appointed by the Faculty, shall write the best English essay of the year.

Class of 1870 Sophomore English Prize

This prize, the yearly interest of $1,000, will be given to that member of the Sophomore Academic class who shall pass the best examination on the English studies of the year.

Spencer Trask Debating Fund

The interest of $3,000, given by Mr. Spencer Trask, of New York City, is used to promote debating. At present one-third of the interest is awarded to the best debaters in the trials for the intercollegiate debate with Yale; one-third to the best debater in the trials for the intercollegiate debate with Harvard; and one-third for general debating expenses.

Class of 1883 Prizes for English in the School of Science

Class of 1883 English Prize for Juniors in B. S. and Litt. B. Courses.—This prize, the annual interest of $1,000, will be given to that member of the Junior class, a candidate

for the degree of B. S. or Litt. B., electing both courses in the English department, who shall have passed the best examination in English philology and submitted the best essay on a subject in English literature assigned by the English department.

Class of 1883 English Prize for Freshmen in Civil Engineering Course.—This prize, the annual interest of $1,000, will be given to that member of the Freshman class in the civil engineering course who shall have done the best work in the English studies of the Freshman year and shall have submitted the best essay on a subject assigned by the English department.

SCHOLARSHIPS

ENDOWED SCHOLARSHIPS

The first scholarships were established in 1854. Between that time and 1903 one hundred and twelve scholarships, amounting to $114,000, were founded. The income from these, with the exception of the ELIZABETH VAN CLEVE Scholarship, is for the benefit of candidates for the degree of Bachelor of Arts.

SCHOLARSHIPS FOUNDED BETWEEN 1854 AND 1903

1–3.	The COLT Scholarships, founded by Roswell Colt, Esq., of Paterson, N. J.,	$3000
4.	The NEWKIRK Scholarship, founded by Matthew Newkirk, Esq., of Philadelphia,	1000
5.	The JOHN JOSEPH RANKIN Memorial Scholarship, founded by his father, William Rankin, Esq., of Newark, N. J.,	1000
6.	The CRESSWELL Scholarship, founded by A. Creswell, Esq., of Kishacoquillas, Pa.,	1000
7.	The ISAAC R. RANKIN Scholarship, founded by Isaac R. Rankin, Esq., of Newark, N. J.,	1000
8.	The MUSGRAVE Scholarship, founded by Rev. George W. Musgrave, D.D.,	1000
9.	The COGSWELL Scholarship, founded by Rev. Jonathan Cogswell, D.D.,	1000
10.	The GREEN Scholarship, founded by Hon. Henry W. Green, LL.D.,	1000
11–15.	The LENOX Scholarships, founded by James Lenox, Esq., of New York,	5000

16. The HODGE Scholarship, founded by Dr. Hugh L. Hodge, of Philadelphia, 1000
17. The A. B. BAYLIS Scholarship, founded by A. B. Baylis, Esq., of Brooklyn, 1000
18. The HENRY J. VAN DYKE Scholarship, founded by Geo. L. Sampson, Esq., of Brooklyn, 1000
19. The GREGORY Scholarship, founded by Dudley S. Gregory, Esq., of Jersey City, 1000
20. The FIRST PRESBYTERIAN CHURCH OF PEEKSKILL Scholarship, founded by members of the Church, 1000
21. The VAN VORST Scholarship, founded by Hon. John Van Vorst, of Jersey City, 1000
22. The JANEWAY Scholarship, founded by Rev. Jacob J. Janeway, D.D., 1000
23. The PRESBYTERIAN CHURCH OF HUNTINGTON, L. I., Scholarship, founded by the ladies of the Church, 1000
24. The BACKUS Scholarship, founded by E. F. Backus, Esq., of Philadelphia, 1000
25. The VAN SINDEREN Memorial Scholarship, founded by Mrs. and Miss Van Sinderen, of Brooklyn, 1000
26. The NORRIS HALSTEAD Scholarship, founded by Gen. N. Norris Halstead, of Newark, N. J., 1000
27. The MACLEAN Scholarship, founded by Drs. John and George M. Maclean, 1000
28. The HAINES Scholarship, founded by Richard T. Haines, Esq., of Elizabeth, N. J., 1000
29. The JACKSON Scholarship, founded by Hon. John P. Jackson, of Newark, N. J., 1000
30. The TUTTLE Scholarship, founded by Joseph N. Tuttle, Esq., of Newark, N. J., 1000
31. The GERTRUDE N. WOODHULL Memorial Scholarship, founded by her son, Dr. John N. Woodhull, of Princeton, 1000

32. The NATHANIEL W. TOWNSEND Memorial Scholarship, founded by his daughter, Mrs. Daniel Haines, 1000
33. The FIRST PRESBYTERIAN CHURCH OF BRIDGETON Scholarship, founded by members of the Church, 1000
34. The SKIDMORE Scholarship, founded by Joseph R. Skidmore, Esq., of New York, 1000
35. The SPENCER Scholarship, founded by I. S. Spencer, Esq., 1000
36. The JEREMIAH D. LALOR Memorial Scholarship, founded by a friend, 1000
37. The MARQUAND Scholarship, founded by Frederick Marquand, Esq., of Southport, Conn., 1000
38. The FIRST PRESBYTERIAN CHURCH OF TRENTON Scholarship, founded by members of the Church, 1000
39. The CAMERON Scholarship, founded by Hons. Simon and Donald Cameron, 1000
40. The SECOND PRESBYTERIAN CHURCH OF ELIZABETH Scholarship, founded by members of the Church, 1000
41. The C. S. BAYLIS Scholarship, founded by Charles S. Baylis, Esq., of Brooklyn, 1000
42. The ELIZA MUSGRAVE GIGER Memorial Scholarship, founded by her son, Prof. George M. Giger, D.D., 1000
43. The BLAIR Scholarship, founded by James Blair, Esq., of Scranton, Pa., 1000
44. The PENNINGTON Scholarship, founded by Dr. Samuel H. Pennington, of Newark, N. J., 1000
45. The FENTON Scholarship, founded by Aaron Fenton, Esq., 1000
46. The TRASK Scholarship, founded by Alanson Trask, Esq., of Brooklyn, 1000
47. The WITHINGTON Scholarship, founded by Chandler Withington, Esq., of Kingston, N. J., 1000

48. The NEWARK Scholarship,
founded by the will of Henry Rogers, Esq., of Newark, N. J., 1000
49. The CARTER Scholarship,
founded by Aaron Carter, Esq., of Newark, N. J., 1000
50–54. The HOLMES Scholarships,
founded by Capt. Silas Holmes, of New York, 5000
55. The COLWELL Scholarship,
founded by Stephen Colwell, Esq., of Philadelphia, 1000
56. The AITKEN Scholarship,
founded by John Aitken, Esq., of New York, 1000
57. The BULLARD Scholarship,
founded by Mrs. P. Bullard, 1000
58. The NEHEMIAH PERRY Scholarship,
founded by the Hon. Nehemiah Perry, of Newark, N. J., 1000
59. The CHARLES DICKINSON HAMILL Memorial Scholarship, founded by his father, the Rev. Samuel M. Hamill, D.D., 1000
60. The CYRENIUS BEERS Memorial Scholarship,
founded by his daughter, Miss Julia Beers, 1000
61. The JACOBUS Scholarship,
founded by Peter Jacobus, Esq., of Newark, N. J., 1000
62. The MATTHEW B. HOPE Scholarship,
founded by the Trustees as an acknowledgment of the services of Prof. Hope in raising an endowment of over $100,000, 1000
63. The John MACLEAN Scholarship,
founded by a friend of President Maclean, 1000
64. The WHITE Scholarship,
founded by William White, Esq., 1000
65. The ELIZABETH VAN CLEVE Scholarship,
founded by Hon. C. S. Green, of Trenton, N. J., 2000
66. The BLOOMFIELD Scholarship,
founded by Hon. Amzi Dodd, of Bloomfield, N. J., 1000
67. The FLAGLER Scholarship Fund,
the gift of Henry M. Flagler, Esq., of New York City, 1500

68. The JAMES McCOSH Scholarship, founded by friends of President McCosh in New York City, 1000

69–70. The WISTAR MORRIS WOOD and CHARLES MORRIS WOOD Scholarships, founded by their father, Rev. Charles Wood, D.D., of Germantown, Pa., 2000

71. The CLASS OF 1856 Scholarship, founded by members of the class of 1856. 1000

72. The CLASS OF 1841 Scholarship, founded by members of the class of 1841, 1000

73. The ALBERT DOD BROWN Memorial Scholarship, founded by his mother, Mrs. Susan D. Brown, of Princeton, N. J., 1000

74–83. The JONATHAN DICKINSON Scholarship,
The AARON BURR Scholarship,
The JONATHAN EDWARDS Scholarship,
The SAMUEL DAVIES Scholarship,
The SAMUEL FINLEY Scholarship,
The JOHN WITHERSPOON Scholarship,
The SAMUEL STANHOPE SMITH Scholarship,
The ASHBEL GREEN Scholarship,
The JAMES CARNAHAN Scholarship,
The FRANCIS L. PATTON Scholarship,
founded by Miss Rachel L. Kennedy, New York, 10,000

84–88. The KENNEDY Scholarships, founded by Miss Rachel L. Kennedy, New York, 5,000

89. The A. O. HEADLEY Scholarship, founded by A. O. Headley, Esq., of Newark, N. J., 1000

90. The HARVEY LINDSLEY Memorial Scholarship, founded by Mrs. Emeline Coney Lindsley, 1000

91. The BUTLER Scholarship, founded by William Allen Butler, Jr., Esq., 1000

92. The BROKAW Scholarship, founded by Isaac V. Brokaw, Esq., of New York, 1000

93. The EZRA NYE Memorial Scholarship, founded by his son-in-law, F. Wolcott Jackson, Esq., of Newark, N. J., 1000

94. The GRACE NEWCOMBE DENNING Scholarship, founded by Mrs. William Moir, of New York, 1500
95. Founded by a friend, 1000
96–97. The MCCORMICK Scholarships, founded by Mrs. McCormick, of Chicago, 2000
98. THE WILLIAM CAMPBELL TRUESDELL Memorial Scholarship, founded by his father, Warren N. Truesdell, Esq., of Newark, N. J., 1000
99. The HENRY M. ALEXANDER Scholarship, founded by a friend, 1000
100. The JOHN C. D. MATTHEWS Memorial Scholarship, founded by his mother, Mrs. Mary R. Matthews, of Newark, N. J., 1000
101. The MCCORD Scholarship, founded by J. D. McCord, Esq., of Philadelphia, 1000
102–106. The WALLACE Memorial Scholarships, founded in memory of William C. Wallace, of the class of '23, by his daughters, Mrs. Allen and Miss Wallace, of Newark, N. J., 5000
107. The ROBERT VOORHEES Scholarship, founded by Mrs. Susan V. Clark, 1000
108. The J. S. BONSALL Scholarship, founded by Mrs. Susan Bonsall, 1000
109. The LAURANCE FIELD STEVENS Memorial Scholarship, founded by his father, Herbert B. Stevens, Esq., of Greenwich, Conn., 1000
110. The RICHARDS Scholarship, founded by Harry E. Richards, M.D., of Bloomfield, N. J., 1000
111–112. The FINLEY and BREESE Scholarships, founded by a bequest of Samuel F. B. Morse, 2000

In 1903 the Trustees adopted the following rules for the endowment and administration of scholarships:

I. A scholarship in any undergraduate department of the University may be endowed by the payment to the Treasurer of the sum of twenty-five hundred dollars.

II. A scholarship shall entitle the incumbent to re-

ceive remission of one hundred dollars per annum from the charge for tuition.

III. The right to nominate the incumbent of a scholarship shall rest with the donor, if an individual, during his or her lifetime, and if an institution or alumni association, for a period of twenty-five years. At the end of this period or at the death of the donor, the right of nomination shall revert to and rest with the Faculty of the University.

IV. All scholarships shall be held subject to such rules as may be adopted from time to time by the Faculty of the University.

Since the adoption of these rules the following scholarships have been founded:

113. The MAHLON LONG Scholarship, founded by the Rev. George Wells Ely, of Columbia, Pa., $10,000

114. The JOHN LINN PATTON Scholarship, founded by Mr. and Mrs. William A. Patton, of Philadelphia, in memory of their son, John Linn Patton, of the class of 1903, 2500

115. The JOHN H. CONVERSE Scholarship, founded by John H. Converse, Esq., of Philadelphia, 2500

116. The JOHN W. CONVERSE Scholarship, founded by John H. Converse, Esq., of Philadelphia, 2500

117. The ROBERT STOCKTON PYNE Memorial Scholarship, founded by his mother, Mrs. M. Taylor Pyne, of Princeton, 2500

118. The FREDERICK WOLCOTT JACKSON Scholarship, founded by Philip N. Jackson, Esq., of Newark, N. J., 2500

119. The ORANGE Scholarship, founded by the Princeton Alumni Association of the Oranges, 2500

It is customary to assign these scholarships, when they become vacant, to undergraduates who have been members

of the University for at least one year, and who are considered most worthy to receive the benefit.

The conditions governing the award of the ORANGE Scholarship (No. 119) are as follows:

I. Only those are eligible to compete for this scholarship whose parents or family shall at the time of the competition have been resident for at least one year in the district of the Princeton Alumni Association of the Oranges, and who themselves are in residence at Princeton as regular members of the Freshman class in a course leading to a Bachelor's degree.

II. For those eligible to compete for this scholarship a special examination shall be arranged as early in the first term as may be convenient, the material of which shall be selected from the subjects required for entrance. The Faculty shall name as winner of the scholarship that student who stands highest in this examination, and as alternate the student who stands next highest. This alternate may become the holder of the scholarship in case of the death or removal of the winner.

III. The scholarship shall be retained by its winner during his Freshman and Sophomore years, provided that in his studies he maintains a rank not below the second general group and that he does not come under serious discipline for misconduct.

UNIVERSITY SCHOLARSHIPS

Out of the income derived from scholarships founded prior to 1903 the Trustees have created forty University scholarships; ten of the value of $150 each, called "A" scholarships, and thirty of the value of $125 each, called "B" Scholarships. These will be awarded during the summer to members of the Senior, Junior, and Sophomore classes who are candidates for the degree of Bachelor of

Arts, and who have previously received remission of tuition, in accordance with the following rules:

I. The ten "A" scholarships will be awarded to those students whose standing during the previous year was in the first general group. If more than ten students are eligible, award will be made according to seniority of class.

II. The thirty "B" scholarships will be awarded to those students whose standing during the previous year was in the second general group. If more than thirty students are eligible, award will be made according to seniority of class.

The holder of a University scholarship will forfeit it:

(a) If he fails to maintain a stand in the general group in which he stood when the scholarship was awarded to him.

(b) If he is irregular in attendance at his college exercises or incurs serious discipline.

(c) If he does not practice economy. A student whose college bill for board, room rent, light, and heat exceeds three hundred dollars will not be eligible for a University scholarship.

REMISSION OF TUITION

In order that candidates for the degree of Bachelor of Arts, of insufficient means and of more than ordinary intellectual ability, may be enabled to secure an education, it is customary for the Faculty to remit a part (never more than one hundred dollars) of the charge for tuition of those applicants who present satisfactory testimonials as to scholarship and character, and proof that the assistance is absolutely needed. This remission is in the form of a loan, and all applicants who receive it are required to sign a non-interest-bearing note.

Remission of tuition is granted in all cases for one year and is subject to the following conditions:

I. The recipient must maintain a stand in one of the first three groups of his class.

II. He must be regular in attendance at his college exercises and free from serious discipline.

III. He must practice economy. A student whose college bill for board, room rent, light, and heat exceeds three hundred dollars will be considered able to pay full tuition.

For application blanks and further information apply to Mr. Charles W. McAlpin, Secretary of the University.

FUNDS FOR CANDIDATES FOR THE MINISTRY

THE RICHARDS FUND.—A bequest of Mrs. Esther Richards, of New York, amounting to $2,970.32, for the benefit of candidates for the ministry. Received in 1790.

THE LESLIE FUND.—A bequest of James Leslie, of New York, a graduate of the class of 1759, amounting to $10,677.49, for "the education of poor and pious youth with a view to the ministry of the Gospel in the Presbyterian Church." Received in 1792.

THE HODGE FUND.—A bequest of Hugh Hodge, of Philadelphia, of a house and lot on Market street, above Second (No. 205), "to be held by the Trustees in trust, to lease out from time to time, and the rents to be applied to the support and education of pious youth for the ministry." Received in 1805. The net income for the current year will amount to about $750.

For application blanks for aid from the funds for candidates for the ministry apply to Mr. Charles W. McAlpin, Secretary of the University.

CHARITABLE FUND

THE VAN ARSDALE FUND.—A bequest of Robert Van Arsdale, of Newark, N. J., of the class of 1826, amounting to $3,000, "in trust for promoting charitable instruction in the College of New Jersey, according to the discretion of the Faculty." Received in 1875.

Applications for aid from the Van Arsdale Fund should be made to Professor Henry B. Fine, Dean of the Faculty.

PART IX

DEGREES AND HONORS, 1903–1904

DEGREES CONFERRED 1903–1904

DEGREE IN COURSE, CONFERRED JUNE, 1903

A.B.—Charles Underwood Carpenter, as of the class of 1893.

HONORARY DEGREE, CONFERRED OCTOBER, 1903

A M.—James Hazen Hyde, A.B.

DEGREES IN COURSE, CONFERRED MARCH, 1904

A.M.—William Elizabeth Brooks, B.L., *Westminster*, 1900.
Harry McClenaghan, A.B., *University of Nebraska*, 1901.
A.B.—Franklin Brandreth Green, as of the class of 1902.
John Adams Wilson, as of the class of 1873.

HONORARY DEGREES, CONFERRED JUNE, 1904

LL.D.—Adrian Hoffman Joline, A.M., '70.
John La Farge, President of the Society of American Artists and the Society of Mural Painters.
Right Reverend William Lawrence, D.D., S.T.D., Bishop of Massachusetts.
Hon. Robert Harris McCarter, A.M., '79, Attorney General of New Jersey.
St. Clair McKelway, LL.D., L.H.D., D.C.L., Editor of the Brooklyn Eagle.
Hon. John Prentiss Poe, A.M., '54, Professor in the Maryland Law School, and former Attorney General of Maryland.
D.D.—Reverend James Houston Eccleston, '56, S.T.D., Dean of the Theological Seminary of Virginia.
D.Sc.—Per Dusen, *in absentia*.
A.M.—Gifford Pinchot, Chief of the Bureau of Forestry, Department of Agriculture, Washington, D. C.
John Hunn Voorhees, '41, *in absentia*.

DEGREES IN COURSE, CONFERRED JUNE, 1904

DOCTORS OF PHILOSOPHY (*Ph.D.*) . . . 2

Philip Howard Fogel, *Ursinus*, 1901.
John Merrill Poor, *Dartmouth*, 1897.

MASTERS OF ARTS (*A.M.*) . . . 51

William Alton, 1884,
Howard Shreve Fisher, 1894,
John Collings Caton, 1895,
William Rome Gelston, 1901,
Howard Rufus Omwake, 1901,
Joseph Henry Schaefer, 1902,
Robert Patton Anderson, 1903,
Karl Telford Frederick, 1903,
Benjamin Edmund Messler, 1903,
Harvey Clayton Rentschler, 1903
Thad Weed Riker, 1903,
Robert Daniel Williams, 1903.

Herbert Edgar Blair, *Park*, 1901.
Hugh Brown, *Cliff, Sheffield, England*, 1898.
Spencer Gilson Brown, *Blackburn*, 1903.
Leander Jackson Cox, *Roanoke*, 1901.
Dean Newton Dobson, *Washington*, 1901.
William Philip Fetherolf, *Muhlenberg*, 1901.
Harry Glenn Finney, *Wooster*, 1902.
Albert White Grigg, *University of Pennsylvania*, 1902.
Edward Francis Hammond, *Bellevue*, 1902.
Lorin Andrew Handley, *Hanover*, 1902.
Frederick Hammond Howard Hatton, *Wisconsin*, 1901.
Bunshiro Hattori, *Waseda, Tokio, Japan*, 1902.
Ralph Kiddoo Hickok, *Wooster*, 1899.
James Frederick Horn, *Beirut (Indiana)*.
William McDougald Jack, *Lafayette*, 1892.
Leonard Zachariah Johnson, *Lincoln*, 1898.
Henry Alan Johnston, *Davidson*, 1903.
Howard Ickis Kerr, *Emporia*, 1901.
Lucian Lamar Knight, *Georgia*, 1888.
Clarence Edward McCartney, *Wisconsin*, 1901.
John Gresham Machen, *Johns Hopkins*, 1901.
Charles Curtis McIntire, *Park*, 1901.
William Alfred MacKay, *Dalhousie*, 1901.
Finlay Grant Mackintosh, *Dalhousie*, 1901.
William Love McCormick, *Franklin*, 1902.
Fred Raymond Marsh, *Bowdoin*, 1899.
Thomas Morgan, *Lafayette*, 1902.

Guy Louis Morrill, *Massachusetts Institute of Technology.*
Samuel Edmond Osbourne, *Hampden-Sidney*, 1901.
John Rogers Peale, *Lafayette*, 1902.
Emanuel Conceicao Pires, *Illinois*, 1902.
Robert Sheffey Preston, *Hampden-Sidney*, 1903.
Parke Richards, *Lafayette*, 1902.
Donald William Richardson, *Davidson*, 1902.
Elmer Wylie Saxton, *Westminster*, 1901.
Frank Erdman Simmons, *Yale*, 1899.
Edwin Bryant Treat, *Yale*, 1898.
Granville Hampden Triplett, *Washington and Lee*, 1903.
Joseph Laubach Weisley, *Muhlenberg*, 1902.

MASTERS OF SCIENCE (*M.S.*) . . . 5

Harvey Thompson Frazer, B.S., 1897.
Worrall Frederick Mountain, B.S., 1900.
Jasper Elliott Crane, A.B., 1901.
James Spear, Jr., B.S., 1902.
Ralph Erskine Rearick, A.B., 1903.

BACHELORS OF ARTS (*A.B.*) . . 189

David Adler, Jr.,
George Clemens Alderfer,
Henry Barclay Andrews,
John Cathie Angus,
George Wells Arms, Jr.,
Edward McPherson Armstrong,
William Campbell Armstrong,
Douglas Vanneman Ashley,
Edward Sanford Atwater, Jr.,
David Marshal Austin,
Harold Peters Baker,
John Whitney Baker,
Louis Banigan,
David Griffin Barr,
Joseph Zane Batten,
George Tucker Bispham, Jr.,
Louis Garner Bissell,
Norman Towar Boggs,
Samuel Belden Booth,
William Alsop Bours, Jr.,
Wesley Creveling Bowers,
Julian Thruston Boyd,
Howard Milton Bradley,
Roberts Brokaw,
Charles Kellogg Burdick,
Edward Lewis Burrell,
Maxwell Struthers Burt,
Charles Bernacki Burtis,
Edward Harshberger Butler,
William Buchanan Buyers,
Joseph Nelson Carter,
Thomas Francis Carter,
John Howe Cecil,
Robert Newton Chambers,
John Watson Christie,
Charles Rumford Churchman,
William Augustus Clark,
Warren Durant Clark,
Melton Douglas Cole,
James Irving Colwell,
Joseph Wright Cook,
Lloyd Griffith Corkran,

Allen Corson,
Guy Chester Crampton,
Roy Palmer Crary,
Robert Stewart Crocker,
Ray Daugherty,
Daniel Jackson Stewart Day,
John Riegel DeWitt,
Alan Lewis Diefenderfer,
Benjamin Van Duesan Doane,
James Henderson Duff,
George Barry Duffield,
Dwight Woodbridge Edwards,
William Kennedy Ewing,
Edward Percy Fellows,
Joseph Knox Fornance,
Carl Louis Fox,
Peter Hood Ballantine Frelinghuysen,
Carlyle Garrison,
Harold James Gibby,
George Moffitt Goldsmith,
Thomas Roseberry Good,
Evarts Ambrose Graham,
Frederic Kimball Hagar,
Winfield Leinbach Hartman,
George Everett Hastings,
Andrew Hazlehurst, Jr.,
John Jay Heard,
Howard Houston Henry,
Percy Harrington Henry,
Horace Henson,
William Elmer Hirt,
Robert Bushong Hoff,
George Sandford Hornblower,
Lewis Woodruff Hornblower,
Hugh Hardin Hudson,
Graham Chambers Hunter,
Frederick Wiedemeyer Jackson,
Albert Jagger,
Lucius Porter Janeway,
John Albert Justis,
Hugh McNair Kahler,
Welling Sickel Katzenbach,
John Slack Keith,
Perry Hoge Kenly,
David Dickey Kennedy,
William Graham Kennedy,
William Campbell Kerr,
Rockwell King,
Frederick Hartzler Krecker,
Robert Remsen Laidlaw,
John Lorton Lee,
Samuel Adolph Lewisohn,
James Buchanan Lichtenberger,
Clifford Falstrom Lindholm,
Evans Willson Lindsey,
James Paul Lloyd,
Samuel Miller Breckinridge Long,
Edgar Allan Lynn,
George Paul Lyons,
William Milton McCoy,
Francis Graham McKelvy,
Forrest Hadley McLaury,
Fraser Lochland MacLeod,
Francis Larkin Madden,
James McCosh Magie,
James Lynn Matteson,
Fred Clinton Miller,
Paul James Golden Miller,
Herbert Lawrence Mills,
George Monroe Moffett,
Phillips Alexander Moore,
Sydney Luard Moore,
Emerson Boyd Morrow,
David Rupp Myers,
Harry Ellsworth Newman,
Archie Morton Ottenheimer,
Howard Dever Peake,
Richard Varick Pell,
Edward Heath Peters,
George Irwin Phillips,
Samuel Franklin Pogue,
Abram Poole, Jr.,
Alexander Dallas Bache Pratt,

Arthur Deudney Pratt,
Benjamin Marsden Price,
Paul William Puhl,
Edmund Brown Randall,
Robert Clark Ream,
Clarence Howett Reed,
Robert Rush Reed,
Oliver Charlock Reynolds,
Russell Richardson,
Ernest Wilson Riggs,
Armin William Riley,
Robert Ernest Rinehart,
Christopher Dyer Robert,
Lawrence Harrison Rogers,
Stanley William Root,
Alexander Russell,
Samuel Scheffelin Sabine,
Theron Herbert Sammis,
Benjamin Offutt Satterwhite,
Henry Holcombe Savage,
James Isaac Scarborough,
Walter Scott Schultz,
Arthur Pearson Scott,
Conway Wing Shearer,
Bayard Sheldon,
Joseph Clark Shoemaker,
Walter George Sill,
William Sinclair,
Francis Johnston Sloane,
Andrew Augustus Smith,
Harold Cornelius Smith,
Jacob Steinbach, Jr.,
Rolland Drew Stevens,
Weld Merrick Stevens,
George Pomeroy Stewart,
William Robbins Stone,
William Averill Stowell,
Archibald McIntyre Strong,
Edward Warren Sturdevant, Jr.,
Herbert McGeoch Telford,
John Boyd Thacher, 2d,
William Hurlbert Underhill,
Alvin Untermyer,
Wilbur Van Duyn,
Robert Van Valzah,
George Albert Vondermuhll,
Daniel Eugene Wagner,
Joseph Richards Walsh,
Lawrence Hawley Watres,
John Walter Watson,
McQueen Salley Wightman,
Raymond Sanderson Williams,
Royal Archibald Williams,
Edwin Shuey Wilsey,
David C. Wilson, Jr.,
Thomas Hopkins Wilson, Jr.,
Leland Alexander Wind,
Waldo McKibben Winger,
Otto Wolff, Jr.,
Samuel Bradford Woodbridge,
George Bartram Woodruff,
William Woods,
William George Wrightson,
Henry John Zinram.

ELECTRICAL ENGINEERS (*E.E.*) . . . 5

Albert Barnes Boyd,
A.B., Princeton, 1902.

John Scott Maltman,
B.S., Princeton, 1902.

James Gasherie DeWitt Morrell,
Ph.B., Yale, 1900.

Frederick Newton Shepard,
A.B., Princeton, 1902.

Chester Baylis, as of the class of 1892.

BACHELORS OF SCIENCE (*B.S.*) . . . 66

William Henry Abbott,
Lynn Magruder Adsit,
John Sinnickson Allen,
Peirce Archer, Jr.,
William Corwin Beaty,
George Harrington Bell,
Arthur Franklin Beymer,
Joseph McCarter Bowyer,
Harold Hall Bradley,
James Marion Buchanan,
Joseph Chapman,
Francis Campbell Cline,
Ludolph Henry Conklin,
Wallace Butler Cosgrave,
Byron Laflin Davis,
Sydney Sylvester Decker, Jr.,
Ralph Charles De Mange,
John Morgan Denison, Jr.,
Harold Dennis,
Walter Bourchier Devereux, Jr.,
William Gregory Devereux,
Francis William Dinsmore,
Owen Howard Fleming,
James Jackson Forstall,
Henry Frankel,
William Edward Hague,
Thomas Eddy Hardenbergh, Jr.,
Clifford Lindsley Haynes,
Miner Clifford Hill,
Edwin Lowrey Hoopes,
Henry Schuyler Horn,
Mervin Garfield Hughes,
Arthur Carleton Jenvey,
John Paxton Kirkpatrick,
James Sanderson Lawson, Jr.,
Ben Russell Lichty,
David Metcalfe,
Jason Daniel Miles,
Victor Wadleigh Mosher,
Harrison Butler Noble,
Alphonzo Pelham,
Louis Jackson Plumb,
Henry Pogue,
Wilbur Fisk Preston,
Lyttleton Bowen Purnell,
David Dean Ranken,
James Childs Rea,
James Hay Reed, Jr.,
Henry Bailey Reynolds,
Benjamin Rowe,
Thomas McGee Scott,
Wallace Morton Sinclair,
John Philip Sousa, Jr.,
Clyde Garfield Stevens,
Robert Johnson Stokes,
Chesley Innes Swann,
Alexander Lewthwaite Taggart,
Joseph Robinson Truesdale,
Edward Jenkins Turnbull,
Francis Bailey Vanderhoef,
Harry Augustus Warner,
Allen Oldfather Whipple,
George Albert Wildrick,
Walter Donaldson Williams,

Halsey Durand, as of the class of 1891.
Daniel Slawson Horton, as of the class of 1903.

CIVIL ENGINEERS (*C.E.*) . . 22

William Benneville Ahrens,
Albert Cottrell Bradley,
Elliot Cowden Brown,
Fred Van Anden Brown,
William Buck Cormany,
Joseph Spencer Crane,
George Dallas Dixon, Jr.,
George Fox, Jr.,

Henry Vaillant Julier,
William Thornton Anderson Kays,
Charles Latham, Jr.,
Francis Shippen McIlvaine,
Norman Roosevelt McLure,
Holland Montague Merrick, Jr.,
Edward Marcy Miller,
Alfred McCartney Ogle, Jr.,
George Black Rea,
Nicholas Guy Roosevelt,
Leon Monroe Schoonmaker,
Ford Cushing Smith,
Karl Garthwaite Smith,

Henry Clifton Ashmead, as of the class of 1903.

HONORS CONFERRED 1903–1904

ACADEMIC SENIOR HONORMEN

HONORS FOR GENERAL EXCELLENCE

FIRST GROUP—*Magna cum laude*

David Marshal Austin,
David Griffin Barr, *Latin Salutatory*,
Melton Douglas Cole,
William Campbell Kerr,
Emerson Boyd Morrow,
Arthur Pearson Scott, *Valedictory*.

SECOND GROUP—*Cum laude*

George Clemens Alderfer,
George Wells Arms, Jr.,
Douglas Vanneman Ashley,
Edward Sanford Atwater, Jr.,
Harold Peters Baker,
Louis Banigan,
George Tucker Bispham, Jr.,
Louis Garner Bissell,
Samuel Belden Booth,
Julian Thruston Boyd,
Roberts Brokaw,
Joseph Nelson Carter,
Thomas Francis Carter,
John Howe Cecil,
John Watson Christie,
William Augustus Clark,
Guy Chester Crampton,
Daniel Jackson Stewart Day,
Dwight Woodbridge Edwards,
Winfield Leinbach Hartman,
Percy Harrington Henry,
George Sanford Hornblower,
Graham Chambers Hunter,
Albert Jagger,
William Graham Kennedy,
Rockwell King,
Frederick Hartzler Krecker,
James Buchanan Lichtenberger,
Paul James Golden Miller,
George Monroe Moffett,
Phillips Alexander Moore,
Sidney Luard Moore,
Benjamin Marsden Price,
Paul William Puhl,
Theron Herbert Sammis,
Conway Wing Shearer,
Jacob Steinbach, Jr.,
Rolland Drew Stevens,
Herbert McGeoch Telford,
George Albert Vondermuhll,
Daniel Eugene Wagner,
McQueen Salley Wightman,
Raymond Sanderson Williams,
Otto Wolff, Jr.,
William Woods.

THIRD GROUP

Edward McPherson Armstrong,
Lloyd Griffith Corkran,
Ray Daugherty,
Alan Lewis Diefenderfer,
Thomas Roseberry Good,
George Everett Hastings,
Hugh Hardin Hudson,
Frederick Wiedemeyer Jackson,
Welling Sickel Katzenbach,
Forrest Hadley McLaury,
Robert Rush Reed,
Alexander Russell.

SPECIAL HONORS IN PARTICULAR DEPARTMENTS

HISTORY, JURISPRUDENCE, AND POLITICS. *High Honors*—David Marshal Austin, Samuel Belden Booth, Benjamin Marsden Price, Theron Herbert Sammis. *Honors*—Melton Douglas Cole.

CLASSICS. *High Honors*—David Griffin Barr, William Campbell Kerr, Rolland Drew Stevens, Herbert McGeoch Telford.

ENGLISH. *High Honors*—Winfield Leinbach Hartman.

MODERN LANGUAGES. *Honors*—William Robbins Stone.

MATHEMATICS. *High Honors*—Louis Garner Bissell.

PHYSICAL SCIENCE. *Honors*—Conway Wing Shearer.

NATURAL SCIENCE. *High Honors*—Guy Chester Crampton.

SCHOOL OF SCIENCE SENIOR HONORMEN

BACHELOR OF SCIENCE COURSE

FIRST GROUP—*Magna cum laude*

James Jackson Forstall,
William Edward Hague.

SECOND GROUP—*Cum laude*

James Marvin Buchanan,
Ludolph Henry Conklin,
Wallace Butler Cosgrave,
Harold Dennis,
Henry Frankel,
Thomas Eddy Hardenbergh, Jr.,
Harry Augustus Warner,
Walter Donaldson Williams.

CIVIL ENGINEERING COURSE

SECOND GROUP—*Cum laude*

William Benneville Ahrens,
Francis Shippen McIlvaine,
Norman Roosevelt McLure,
Holland Montague Merrick, Jr.,
Alfred McCartney Ogle, Jr.,
Nicholas Guy Roosevelt,
Ford Cushing Smith.

Special Honors in Particular Departments

History, Jurisprudence, and Politics. *High Honors*—James Jackson Forstall.

FELLOWS

(For names of Fellows, see page 36.)

SENIOR PRIZEMEN

Alexander Guthrie McCosh Prize

Divided between David Marshal Austin and Otto Wolff, Jr.

Lynde Prize Debate

First—Phillips Alexander Moore,
Second—Arthur Pearson Scott,
Third—Hugh McNair Kahler.

Lynde Debaters

From the American Whig Society
James Jackson Forstall,
Thomas Roseberry Good,
Phillips Alexander Moore.

From the Cliosophic Society
Hugh McNair Kahler,
Ernest Wilson Riggs,
Arthur Pearson Scott.

Baird Prizemen

Baird Prize—William Woods,
Oratory—Arthur Pearson Scott,
Delivery—Graham C. Hunter,
Poetry—Edward H. Butler,
Disputation, First—J. J. Forstall,
Second—P. A. Moore.

Class of 1859 Prize in English Literature

Raymond Sanderson Williams.

George Potts Bible Prize

George Wells Arms, Jr.

Lyman H. Atwater Prize in Political Science

Graham Chambers Hunter.

FREDERICK BARNARD WHITE PRIZE IN ARCHITECTURE

Robert Stewart Crocker, with honorable mention of Henry Oothout Milliken.

THEODORE CUYLER PRIZE IN ECONOMICS

Norman Towar Boggs.

CLASS OF 1869 PRIZE IN ETHICS

David Marshal Austin, with honorable mention of Daniel Jackson Stewart Day and McQueen Salley Wightman.

NEW YORK HERALD PRIZE

Not awarded.

C. O. JOLINE PRIZE IN AMERICAN POLITICAL HISTORY

Benjamin Marsden Price, with honorable mention of Benjamin Van Duesan Doane.

ACADEMIC JUNIOR HONORMEN

FIRST GROUP

G. M. Conwell,
Carson Coover,
S. H. Daddow,
C. C. Mierow,
N. M. Thomas,
W. V. Van Doren.

SECOND GROUP

J. S. Burgess,
E. B. Cornwall,
C. C. Dawkins,
Seung Dong,
D. B. Doyle,
M. P. Dunlap,
D. B. Durham,
M. S. Fales,
H. M. Fuller,
A. A. Hamblen,
E. H. Hilliard,
Watson Irwin,
W. G. Kelso, Jr.,
C. V. Maddux,
P. C. Mann,
J. S. Messler,
H. S. Milton,
F. S. Moore,
Horace Mount,
J. A. Newell,
A. S. Phillips,
J. W. Spangler,
C. D. Thompson,
R. E. Trone,
H. A. Walker.

SCHOOL OF SCIENCE JUNIOR HONORMEN

Bachelor of Science Course

Second Group

M. H. Eisenhart,
Childs Frick,
P. L. Gaskins,
T. W. Harvey, Jr.,
I. J. S. Loeb,
John Matter,
R. D. Reimers,
C. E. Scribner,
Henry Swan,
F. H. Tuttle,
C. H. Walcott,

Civil Engineering Course

Second Group

Charles Baker,
W. S. Crosby, Jr.,
Edward Karow, Jr.,
E. D. Payne,
T. R. Sharp,
C. R. Simpson,
T. K. Stevenson.

JUNIOR PRIZEMEN

Junior First Honor Prize

Divided equally between Charles Christopher Mierow and Norman Mattoon Thomas.

Maclean Prize

James Lithgow Semple.

Junior Orator Medals

First—Raymond Blaine Fosdick, *Third*—Norman M. Thomas,
Second—James Lithgow Semple, *Fourth*—Edgar Richardson.

Competing Junior Orators

From the Cliosophic Society

John Ogden Bigelow,
Edgar Richardson,
James Lithgow Semple,
Howard Arnold Walter.

From the American Whig Society

Samuel Harries Daddow,
Merton S. Fales,
Raymond Blaine Fosdick,
Norman Mattoon Thomas.

DICKINSON PRIZE

William Gordon Kelso, Jr.

THOMAS B. WANAMAKER ENGLISH PRIZE

Charles Christopher Mierow, with honorable mention of James Riggs Brewster and Homer Charles Zink.

CLASS OF 1870 JUNIOR ENGLISH PRIZES

Anglo-Saxon—Charles Christopher Mierow.
English Literature—Samuel Harries Daddow.

MARY CUNNINGHAM HUMPHREYS JUNIOR GERMAN PRIZES

First—Charles Christopher Mierow.
Second—Thomas Nelson Dodd.

ACADEMIC SOPHOMORE HONORMEN

FIRST GROUP

W. W. Hay,	The Morris High School, New York City.
P. L. Urban,	William Penn Charter School, Philadelphia.

SECOND GROUP

K. B. Barnes,	High School, Council Bluffs, Iowa.
J. B. Beaty,	The Princeton Preparatory School, Princeton.
S. H. Bird,	The Hill School, Pottstown, Pa.
E. E. Calverley,	Central High School, Philadelphia.
R. E. Caskey,	Central High School, Philadelphia.
G. H. Cresse,	State Normal School, Trenton, N. J.
W. S. Davison,	Peddie Institute, Hightstown, N. J.
Deane Edwards,	Central High School, St. Paul, Minn.
James Gilmore,	Central High School, Philadelphia.
C. W. Greene,	Masten Park High School, Buffalo, N. Y.
Sinclair Hamilton,	Englewood School for Boys, Englewood, N. J.
Arthur Harris,	High School, Newark, N. J.
Roger Hinds,	High School, Richmond Hill, N. Y.
R. C. Hoag,	Blair Presbyterial Academy, Blairstown, N. J.
Brison Howie,	Germantown Friends' School, Germantown, Pa.
J. K. Jackson,	High School, Harrisburg, Pa.
R. H. Jones, Jr.,	Boys' High School, Atlanta, Ga.
A. A. Mackimmie,	Pictou Academy, Pictou, Nova Scotia.

F. R. Nason,	Phillips Academy, Andover, Mass.
C. B. Price,	Blair Presbyterial Academy, Blairstown, N. J.
C. M. Rebert,	The Hill School, Pottstown, Pa.
R. S. Simpson,	Friends' Select School, Washington, D. C.
G. S. Spohn,	Muhlenberg College, Allentown, Pa.
E. O. Stanley, Jr.,	High School, East Orange, N. J.
C. S. Strater,	Flexner's School, Louisville, Ky.
Elias Sunstein,	Kiskiminetas Springs School, Saltsburg, Pa.
A. C. Worth, Jr.,	Englewood School for Boys, Englewood, N. J.

ACADEMIC SOPHOMORE SPECIAL HONORS

GREEK. *High Honors*—W. W. Hay, E. O. Stanley, Jr., E. Sunstein, P. L. Urban. *Honors*—K. B. Barnes, J. B. Beaty, D. W. Bell, H. F. Bliss, E. F. Butler, R. E. Campbell, Jr., R. E. Caskey, G. H. Cresse, J. Gilmore, C. W. Greene, S. Hamilton, R. C. Hoag, R. H. Jones, Jr., A. A. McLeod, Jr., C. R. Price, C. L. Quintard, F. P. Simons, R. Simpson, S. M. Sinclair, A. C. Worth, Jr.

LATIN. *High Honors*—E. Sunstein, P. L. Urban. *Honors*—K. B. Barnes, J. B. Beaty, D. W. Bell, H. F. Bliss, R. E. Caskey, S. R. Cecil, D. Edwards, L. D. Froelick, J. Gilmore, C. W. Greene, A. Harris, W. W. Hay, R. C. Hoag, R. H. Jones, Jr., C. O. Kienbusch, C. R. Price, C. L. Quintard, H. W. Ralph, R. Simpson, S. M. Sinclair, E. O. Stanley, Jr., A. C. Worth, Jr.

MATHEMATICS. *High Honors*—J. B. Beaty, R. Hinds, J. E. McGiffert. *Honors*—G. H. Cresse, R. H. Jones.

SCHOOL OF SCIENCE SOPHOMORE HONORMEN

BACHELOR OF SCIENCE COURSE

SECOND GROUP

Marion Eppley,	Carteret Academy, East Orange, N. J.
M. C. Hayes,	Mohegan Lake School, Mohegan, N. Y.
B. W. Kerr,	Shady Side Academy, Pittsburg, Pa.
Arthur Orr, Jr.,	Lawrenceville School, Lawrenceville, N. J.
G. H. Reppert,	Dr. Holbrook's School, Ossining, N. Y.

CIVIL ENGINEERING COURSE

SECOND GROUP

R. A. Barry,	Boys' High School, Brooklyn, N. Y.
F. R. Howe,	Friends' Select School, Washington, D. C.

S. Johnson, Jr.,	Shortridge High School, Indianapolis, Ind.
J. R. Munn,	East Orange High School, East Orange, N. J.
J. H. Nuelle,	Phillips Academy, Exeter, N. H.
J. L. Vauclain,	William Penn Charter School, Philadelphia.

SOPHOMORE PRIZEMEN

Class of 1876 Memorial Prize for Debate

Kenneth Martin McEwen.

Class of 1861 Prize

Robert Paterson Fairing, with honorable mention of George Hoffman Cresse.

Francis Biddle Sophomore Essay Prize

Edwin Elliott Calverley.

Class of 1870 Sophomore English Prize

Divided between Percy Linwood Urban and Julian Bonar Beaty.

ACADEMIC FRESHMEN HONORMEN

First Group

Hugh Hagan,	Wittenberg College, Springfield, Ohio.
R. F. Haulenbeck,	Montclair Military Academy, Montclair, N. J.
H. M. Johnson,	High School, Peoria, Ill.
E. W. Walker,	Polytechnic Institute, Brooklyn, N. Y.
W. M. Ward,	High School, Newark, N. J.

Second Group

W. L. Barrows,	Leal's School for Boys, Plainfield, N. J.
H. M. Cummings,	High School, Harrisburg, Pa.
T. J. Durell,	Lawrenceville School, Lawrenceville, N. J.
A. B. Fowler,	State Normal School, Geneseo, N. Y.
H. Z. Goas,	Perkiomen Seminary, Pennsburg, Pa.
R. H. Hansl,	Pennington Seminary, Pennington, N. J.
W. A. Henricks,	Central High School, Philadelphia.
D. M. Hooks,	High School, Holyoke, Mass.
A. K. Krause,	Perkiomen Seminary, Pennsburg, Pa.
R. K. Landis,	The Steele High School, Dayton, Ohio.

Alexander Mackie,	Central High School, Philadelphia.
J. A. Muller,	Central High School, Philadelphia.
C. F. Smith,	High School, Dedham, Mass.
W. L. Thomas,	The Horace Mann School, New York City.
W. M. Timmons,	Lawrenceville School, Lawrenceville, N. J.
C. C. Wooden,	Jacob Tome Institute, Port Deposit, Md.

SCHOOL OF SCIENCE FRESHMEN HONORMEN

Bachelor of Science Course

First Group

J. R. Carson,	Allegheny Preparatory School, Allegheny, Pa.
C. F. Hinrichsen,	High School, Newark, N. J.

Second Group

Robb Carson,	Allegheny Preparatory School, Allegheny, Pa.
P. F. Chew,	Newark Academy, Newark, N. J.
F. H. Condit,	High School, West Orange, N. J.
R. M. George,	High School, Bradford, Pa.
L. C. Jones,	Pomfret School, Pomfret, Conn.
G. A. Keeney, Jr.,	The Pingry School, Elizabeth, N. J.
H. R. Kohler,	Louisville School for Boys, Louisville, Ky.
Charles Penrose,	The Episcopal Academy, Philadelphia.
C. C. Smith,	Lawrenceville School, Lawrenceville, N. J.
G. S. Warren,	Male High School, Louisville, Ky.
A. P. Washburn,	High School, Hackensack, N. J.

Civil Engineering Course

First Group

Harry Bennett,	Mount Hermon School, Mount Hermon, Mass.
L. I. Whitlock,	The Pingry School, Elizabeth, N. J.

Second Group

F. G. Appel,	The Shortridge High School, Indianapolis, Ind
Nathaniel Dain,	Mohegan Lake School, Mohegan, N. Y.
J. E. Freeman,	Lawrenceville School, Lawrenceville, N. J.
F. M. Harris,	Lawrenceville School, Lawrenceville, N. J.
W. H. Hulsizer,	High School, Flemington, N. J.

FRESHMEN PRIZEMEN

BACHELOR OF SCIENCE LATIN SCHOLARSHIP

First—John Renshaw Carson.
Second—Leonard Chester Jones.

ALUMNI ENTRANCE PRIZE IN NEW YORK, JUNE, 1904

Warren Elsing, The Polytechnic Preparatory School, Brooklyn.

ALUMNI ENTRANCE PRIZE IN ERIE, PA., JUNE, 1904

C. D. Spencer, The Hill School, Pottstown, Pa.

PART X

ALUMNI ASSOCIATIONS, LISTS OF STUDENTS, DIRECTORY, AND INDEX

ALUMNI ASSOCIATIONS

ALUMNI ASSOCIATION OF NASSAU HALL.—Founded 1826.

President, James W. Alexander, A.M., '60.
Secretary, Professor Henry C. Cameron, Ph.D., D.D., '47.

The Alumni Meeting is held in the Gymnasium on Tuesday of Commencement Week at 1.30 P.M., when the Alumni Dinner is served.

WESTERN ASSOCIATION OF PRINCETON CLUBS

President, K. Duncan Mellier, Esq., '69, St. Louis.
Secretary and Treasurer, John H. Thacher, Esq., '95,
New York Life Building, Kansas City.

PRINCETON CLUB OF NEW YORK.—Founded 1866.

72 East 34th St.

President, Tracy H. Harris, '86.
Secretary, William W. Phillips, Esq., '95, 30 Broad St.

PRINCETON CLUB OF PHILADELPHIA.—Chartered 1898.

Honorary President, Hon. Craig Biddle, '41.
President, Alexander Van Rensselaer, Esq., '71.
Secretary, Edmund B. Seymour, Jr., Esq., '98,
911 Stephen Girard Building.

PRINCETON ALUMNI ASSOCIATION OF THE DISTRICT OF COLUMBIA AND SOUTHERN STATES.—Founded 1872.

President, Dr. Wallace Neff, '74.
Secretary and Treasurer, Wallace Donald McLean, Esq., '96,
416 5th St., N. W., Washington, D. C.

PRINCETON CLUB OF WESTERN PENNSYLVANIA.—Founded 1875.

President, James P. Shaw, M.D., '86.
Secretary, John W. Hussey, Esq., '98, Park Building, Pittsburg.

PRINCETON ALUMNI ASSOCIATION OF CINCINNATI.—Founded 1875.

President, James C. Ernst, '73.
Secretary and Treasurer, Walton C. Hill, '97, Rawson Building.

PRINCETON CLUB OF CHICAGO.—Founded 1876.

President, William Alton, Jr., '84.
Secretary and Treasurer, James W. Thorne, Esq., '00, 115 Michigan Ave.

PRINCETON CLUB OF ST. LOUIS.—Founded 1876.

President, John D. Davis, Esq., '72.
Secretary, Joseph W. Lewis, Esq., '90, 421 Olive St.

PRINCETON ALUMNI ASSOCIATION OF OMAHA.—Founded 1884.

President, Leonidas P. Funkhouser, M.D., '78.
Secretary, Thomas Creigh, Esq., '94, care Cudahy Packing Co., South Omaha.

PRINCETON ALUMNI ASSOCIATION OF LOUISVILLE.—Founded 1884.

President, John G. Cecil, Esq., '76.
Vice-President, John W. Barr, Jr., Esq., '85.
Secretary, A. Scott Bullitt, Esq., '98, 502 Mutual Life of Kentucky Building.

CENTRAL PENNSYLVANIA ALUMNI ASSOCIATION OF PRINCETON UNIVERSITY.—Founded 1885.

President, Charles H. Bergner, Esq., '74.
Secretary, W. H. Musser, Esq., '96, 215 N. Second St., Harrisburg.

PRINCETON ALUMNI ASSOCIATION OF MARYLAND.—Founded 1885.

President, George R. Gaither, Esq., '78.
Treasurer, Austin McLanahan, Esq., '92.
Secretary, William Griffith Wilson, Esq., '94, 822 Park Ave., Baltimore.

PRINCETON CLUB OF TRENTON.—Founded 1886.

President, Hon. Frank S. Katzenbach, Jr., '89.
Secretary, W. M. Dickinson, Esq., '97.

PRINCETON ALUMNI ASSOCIATION OF THE NORTHWEST
Founded 1886.

President, James D. Denègre, Esq., '89.
Secretary, Paul C. Weed, '96, 103 National German-American Bank Building, St. Paul, Minn.

PRINCETON ALUMNI ASSOCIATION OF NORTHEASTERN PENNSYLVANIA.—Founded 1886.

President, George R. Wright, Esq., '73.
Secretary, Paul Bedford, Esq., '97, Wilkes-Barre.

PRINCETON ALUMNI ASSOCIATION OF NORTHERN OHIO
Founded 1887.

President, J. Potter, Esq., '77.
Secretary, O. W. Upson, Esq., '95, 163 River St., Cleveland.

PRINCETON CLUB OF NEWARK.—Founded 1894.

President, Philip N. Jackson, Esq., '81.
Secretary, James B. Burnett, Jr., Esq., '94, 16 Chestnut St.

PRINCETON CLUB OF ALBANY AND VICINITY.—Founded 1889.

President, Rev. Charles A. Richmond, '83.
Secretary, Andrew Thompson, Esq., '99, 53 Lake Ave., Albany.

PRINCETON ALUMNI ASSOCIATION OF DELAWARE.—Founded 1892.

President, Hon. William C. Spruance, '52.
Secretary, W. H. Porter, Esq., '75, Equitable Building, Wilmington.

PRINCETON ALUMNI ASSOCIATION OF CENTRAL NEW YORK
Founded 1894.

President, Professor John Van Duyn, M.D., '62.
Secretary, Joseph D. Green, Esq., '95, 115 East Water St., Syracuse.

PRINCETON ALUMNI ASSOCIATION OF WESTERN NEW YORK
Founded 1894.

President, William B. Lee, '79.
Secretary, George K. Ward, '69, 17 Grove Place, Rochester.

PRINCETON CLUB OF THE SOUTHWEST.—Founded 1895.

President, John H. Thacher, Esq., '95.
Secretary, John M. Townley, Esq., '97, Second and Walnut Sts., Kansas City, Mo.

PRINCETON CLUB OF UNION COUNTY, NEW JERSEY.—Founded 1896.
President, Hon. Joseph Cross, '65.
Secretary-Treasurer, Conover English, Esq., '99, Elizabeth.

ROCKY MOUNTAIN PRINCETON CLUB.—Founded 1894.
President, S. H. Thompson, Jr., '97.
Secretary, William Rolla Wilson, Esq., '96,
821 Fifteenth St., Denver, Colo.

PRINCETON ALUMNI ASSOCIATION OF NEW ENGLAND
Founded 1897.
President, Francis L. Coolidge, Esq., '84.
Secretary, William B. Woodbridge, Esq., '93, 180 Federal St.,
Boston, Mass.

PRINCETON ALUMNI ASSOCIATION OF TEXAS.—Founded 1897.
President, William B. Seeley, M.D., '79.
Secretary-Treasurer, Charles C. Cresson, Jr., '95, San Antonio, Texas.

PRINCETON ALUMNI ASSOCIATION OF ERIE.—Founded 1897.
President, William Spencer, Esq., '70.
Secretary, Frank H. Payne, Esq., '91, care Metric Metal Co., Erie.

PRINCETON ALUMNI ASSOCIATION OF INDIANA.—Founded 1898.
President, George T. Porter, Esq., '69.
Secretary, Theodore Potter, M.D., '82, 610 Newton Claypool Building, Indianapolis.

PRINCETON ALUMNI ASSOCIATION OF SOUTH AFRICA
Founded 1898.
President, Rev. F. M. Wood, '58.
Secretary, George W. Lyon, Esq., '96, Box 433, Port Elizabeth,
Cape Colony.

PRINCETON CLUB OF CEDAR RAPIDS, IOWA.—Founded 1901.
President, Rev. E. R. Burkhalter, '62.
Secretary and Treasurer, Archer C. Sinclair, '98.

PRINCETON CLUB OF HAWAII.—Founded 1901.
President, John Waterhouse, '96.
Secretary, Rev. Edward B. Turner, '96, Kohala, H. I.

PRINCETON ALUMNI ASSOCIATION OF SYRIA.—Founded 1902.
President, Rev. William K. Eddy, '75.
Secretary, Robert S. Steen, '01, Syrian Protestant College, Beirut, Syria.

PRINCETON ALUMNI ASSOCIATION OF GERMANY.—Founded 1902.
Secretary, Benjamin E. Messler, Esq., '03.
Home Secretary, Jacob Newton Beam, Esq., '96, Princeton.

PRINCETON CLUB OF PARIS.—Founded 1903.
Secretary, Evans T. Richardson, Esq., '88, 26 rue de Lubeck XVI.

PRINCETON ALUMNI ASSOCIATION OF THE ORANGES
Founded 1903.
President, Robert E. Annin, Esq., '80.
Secretary, A. H. Hagemeyer, Esq., '97, South Orange, N. J.

STUDENTS OF THE UNIVERSITY

GRADUATE STUDENTS

Allen, Louis Chowning, Shelbyville, Ky., 311 H S
A.B., Centre College, 1903.

Allison, Roy Melville, Hopedale, Ohio, 80 Alexander St.
A.B., Washington and Jefferson College, 1902.

Anderson, George Ralph, Wichita, Kans., 208 H S
A.B., Emporia College, 1902.

Angus, Samuel, Ballycowan, Ballymena, Ireland, 14 A S
A.B., Royal University of Ireland, 1902; A.M., Royal University of Ireland, 1903.

Arms, George Wells, Jr., Princeton, N. J., 176 Nassau St.
A.B., Princeton University, 1904.

Austin, David Marshal, Vineland, N. J., 9 S M R
A.B., Princeton University, 1904.

Axtell, Paul Dickson, Wooster, Ohio, 42 A S
A.B., University of Wooster, 1903.

Barnes, Edward David, Marceline, Mo., 315 H S
A.B., Park College, 1904.

Bethel, Martin Luther, Oklahoma City, O. T., 12 Jackson St.
A.B., Lincoln University, 1901.

Bissell, Louis Garner, Philadelphia, Pa., 8 N R
A.B., Princeton University, 1904.

Booth, Samuel Belden, Danbury, Conn., "E," E B
A.B., Princeton University, 1904.

Boyd, James Oscar, Princeton, N. J., 50 Univ. Pl.
A.B., New York University, 1895; A.M., New York University, 1897; B.D., New York University, 1899.

Brank, Rockwell Smith, St. Louis, Mo., 31 A S
B.L., University of Virginia, 1899.

Brinkema, Bernard Jacob, Hastings, Neb., 94 Alexander St.
B.S., Hastings College, 1904.

Brown, James Bedford, Hastings, Neb., 38 A S
A.B., Princeton University, 1900.

Burslem, George Ashworth, Baltimore, Md., 27 A S
A.B., French-American College, 1900.

Butler, Edward Harshberger, Tacoma, Wash., 18 S W
A.B., Princeton University, 1904.

Clark, Howard Albert, Bridgeton, N. J., 409 H S
A.B., Lafayette College, 1904.

Clark, William Monroe, Augusta, Ky., 51 B S
A.B., Southwestern Presbyterian University, 1900.

Cleland, Thomas Horace, Los Angeles, Cal., 115 H S
A.B., Occidental College, 1903.

Clemons, William Harry, Hartford, Conn., 10 Dickinson St.
A.B., Wesleyan University, 1902.

Coyle, Thomas, Douglas, Alaska, 74 Alexander St.
A.B., Amherst College, 1892; A.M., Amherst College, 1895.

Daniel, Leroy Landis, Harrisburg, Pa., 210 H S
A.B., Princeton University, 1903.

Daughtrey, Mills Colgate, Lynchburg, Va., 14 Edgehill St.
A.B., Roanoke College, 1904.

Davies, Howell David, Oshkosh, Wis., 402 H S
A.B., Ripon College, 1904.

Eagleson, Edwin Lamont, Mercer, Pa., 78 B S
A.B., Westminster College, 1899.

Eames, Charles Moseley, Jacksonville, Ill., 46 A S
A.B., Illinois College, 1904.

Edwards, Dwight Woodbridge, St. Paul, Minn., 7 N R
A.B., Princeton University, 1904.

Elliott, Newell James, Long Beach, Cal., 64 B S
A.B., University of Nebraska, 1904.

Evans, Frederick Walter, McKeesport, Pa., 206 H S
A.B., Washington and Jefferson College, 1902.

Fellstrom, Arthur Abram, Hammond, Ind., 34 B S
A.B., Simpson College, 1904.

Ferry, Ebenezer Thomas, Macalester, St. Paul, Minn., 47 B S
A.B., Macalester College, 1903.

Finney, John Clark, Churchville, Md., 22 A S
A.B., Princeton University, 1903.

Fisher, Charles Allen, Lebanon, Pa., 21 B S
A.B., Lebanon Valley College, 1903.

Frank, Adam Garfield, Mason, Ohio, 33 A S
A.B., Washburn University, 1901; A.M., Princeton University, 1902.

Freeman, Robert Guthrie, Edinburgh, Scotland, 48 B S
A.B., Alleghany College, 1904.

Galbraith, William Fred, Milford, Tex., 19 B S
A.B., Austin College, 1899; B.D., Union Theological Seminary, 1903.

Gratz, Humphrey Gilbert, Alberton, Prince Edward Island, 38 B S
A.B., Dalhousie College, 1892; A.M., Princeton University, 1895.

Gross, Albert, Dayton, Ohio, 11 N Ed.
C.E., Princeton University, 1903.

Hattori, Bunshiro, Tokio, Japan, 2 N Ed.
A.B., Waseda University, 1902; A.M., Princeton University, 1904.

Hiltebeitel, Adam Miller, Green Lane, Pa., 27 Williams St.
A.B., Princeton University, 1900; A.M., Princeton University, 1901.

Huizinga, Arnold van Couthen Piccardt, Groningen, Holland, 7 A S
Gronigen College, Holland, 1894; B.D., Yale University Divinity School, 1904.

Kane, John Francis, Gardiner, Me., Princeton Preparatory School
A.B., Amherst College, 1904.

Kennedy, Charles William, New Brighton, Staten Island, N. Y.
A.B., Columbia University, 1902. 14 Van Deventer Ave.

Kerr, William Campbell, Newark, N. J., 20 E W
A.B., Princeton University, 1904.

Knox, Robert, Giddings, Texas, 304 H S
A.B., University of Texas, 1903.

Lamberton, Clark Diven, Carlisle, Pa., 309 H S
A.B., Dickinson College, 1902.

Lee, Theron, Carbondale, Pa., 408 H S
A.B., Lafayette College, 1904.

Linton, Josiah Marshall, Wissahickon, Philadelphia, Pa., 43 B S
A.B., University of Pennsylvania, 1904.

Machen, John Gresham, Baltimore, Md., 39 A S
A.B., Johns Hopkins University, 1901; A.M., Princeton University, 1904.

Mackie, Joseph Bolton Cooper, Philadelphia, Pa., 45 B S
A.B., Geneva College, 1904.

McLeod, William C., Lucknow, Ontario, 308 H S
A.B., University of Manitoba, 1904.

McNeill, Charles Chamberlain, Charlottesville, Va., 33 B S
A.B., Washington and Lee University, 1903.

Makino, Magotaro, Shizuoka, Japan, 12 N Ed.
A.B., Waseda University, 1899.

Mitchell, Walter Mann, Philadelphia, Pa., 27 William St.
B.S., University of Pennsylvania, 1902.

Morris, Robert Hugh, Barnesville, Ga., 15 A S
University of Georgia and Emory College, 1896.

Morrow, Emerson Boyd, Harrisburg, Pa., 16 S Ed.
A.B., Princeton University, 1904.

Nakagawa, Takataro, Iyo, Japan, 32 N Ed.
A.B., Waseda University, 1903.

Nelson, John, Utica, Pa., 66 B S
A.B., Grove City College, 1899.

Nesbit, Valentine Jordan, Waverly Mills, S. C., 61 B
A.B., University of the South, 1904.

Newkirk, John Martin, Pasadena, Cal., 117 H S
A.B., University of California, 1903.

Ostrom, Henry Conrad, Lockport, Ill., 15 B S
B.S., Augustana College, 1895.

Patterson, Karl Bachman, China Grove, N. C., 14 Edgehill St.
A.B., Roanoke College, 1904.

Peterson, Charles Wilson, Nanticoke, Pa., 20 B S
A.B., Park College, 1903.

Pressly, David Peden, Troy, Tenn., 69 B S
A.B., Erskine College, 1901; A.M., Erskine College, 1903; B.D., Princeton Theological Seminary, 1904.

Rendall, Humphrey Jones, Lincoln University, Pa., 109 H S
A.B., Princeton University, 1903.

Richardson, Donald William, Nelson, S. C., 302 H S
A.B., Davidson College, 1902; A.M., Princeton University, 1904.

Rinker, Richard Albert, Gladwyne, Pa., 62 B S
A.B., Ursinus College, 1900.

Roberts, Stacy Lippincott, Philadelphia, Pa., 409 H S
A.B., Lafayette College, 1904.

Rowan, Thomas, Drumadonald, Rathfriland, Co. Down, Ireland,
Columbia University and Princeton University. 41 B S

Russell, Andrew, Bristol, Quebec, Can., 16 B S
A.B., McGill University, 1891.

Sakamoto, Tsutoma, Yokahama, Japan, 12 N Ed.
A.M., Tokyo Higher Commercial College, 1901.

Shearer, Conway Wing, New York City, Tower Club.
A.B., Princeton University, 1904.

Sinclair, William John, Oakland, Cal., 27 S. Ed.
B.S., University of California, 1903; Ph.D., University of California, 1904.

Smith, Harry Parker, Verona, Pa., 76 B S
A.B., Muskingum College, 1901.

South, Arthur Lonson, Ballston Springs, N. Y., 77 B S
A.B., Union College, 1902.

Steen, John Ewing, Philadelphia, Pa., Dodge Hall
A.B., Princeton University, 1903.

Stratton, Paul, Trenton, N. J., 20 A S
A.B., Princeton University, 1903.

Streubel, Clarence Emmanuel, East Orange, N. J., 403 H S
A.B., Princeton University, 1902.

Stromsten, Frank Albert, Corydon, Iowa, 43 U
B.S., State University of Iowa, 1900; M.S., State University of Iowa, 1902.

Takahashi, Motokichi, Akita, Japan, 10 S Ed.
Tokyo Higher Normal School, 1901.

Thomas, Daniel Lindsey, Lebanon, Ky., 6 S D
A.B., Centre College, 1900; A.M., Centre College, 1902.

Treat, Edwin Bryant, Lawrenceville, N. J.
A.B., Yale University, 1898; A.M., Princeton University, 1904.

Vandervelde, Conrad, Waupun, Wis., 402 H S
A.B., Ripon College, 1904.

Walker, Olney Kinkead, Wilton Junction, Iowa, 33 A S
A.B., Coe College, 1903.

Wallace, Robert Burns, Philadelphia, Pa.
A.B., University of Pennsylvania, 1896.

Wilkinson, William John, Brooklyn, N. Y., 41 A S
A.B., William and Mary College, 1902.

Williamson, Robert Clement, Raymore, Mo., 309 H S
A.B., Park College, 1903.

Wilson, Alfred Lee, Greenfield, Ohio, 411 H S
Ph.B., University of Wooster, 1903.

Wright, John, Princeton, N. J., 53 B S
A.B., Park College, 1903.

Zugg, Frank Richard, Bantam, Ohio, 29 B S
A.B., Park College, 1903.

GRADUATE STUDENTS 91

ACADEMIC SENIOR CLASS

Ackley, Lewis Arthur, Hackettstown, N. J., 2 U P
†Adams, Charles Henry, Portland, Me., 122 L
Alexander, Bertal Leigh, Princeton, N. J., 62 Alexander St.
Auerbach, John Hone, New York City, 3 L P
†Baker, Albert Theodore, Harrisburg, Pa., 6 S E B
Bardwell, Alvah Edgar, Castalia, O., 11 M D
Bassett, Henry Jewell, Maryville, Tenn., 8 S Ed
Beal, George Hamilton, Clarinda, Ia., 23 William St.
Bigelow, John Ogden, Newark, N. J., 73 B
†Blakeman, Frederick Thomlinson, New York City, 12 S E B
Bodine, Joseph Lamb, Trenton, N. J., 13 S W
Bond, Jesse Johnson, Lawrenceburg, Ky., 11 N M R
Bradshaw, William M., New York City, 13 M D
Brewster, James Riggs, Montrose, Pa., Dodge Hall
Brinkerhoff, Richard Sayre, Springfield, Ill., 1 E B
Brooks, Charles Ames, Plainfield, N. J., 132 L
Brooks, Noah Reynolds, Montclair, N. J., 161 L
Brower, Charles de Hart, Jr., New York City, 2 L P
Brown, Charles Francis, Baltimore, Md., 8 E B

† Candidate for a degree in February, 1906.

†Brown, Coleman Peace,	Philadelphia, Pa.,	6 N D
Brown, Frederick Lane,	Somerville, N. J.,	5 S W B
Burgess, John Stewart,	Trenton, N. J.,	13 E W
Burke, Thomas James,	Princeton, N. J.,	12 E W
Cadwalader, Lambert,	Fort Washington, Pa.,	7 N D
Callan, Gerard,	Yonkers, N. Y.,	A, B
Carter, Pasco Billings,	Pittsburg, Pa.,	11 S W
Carton, Alfred Thomas,	Chicago, Ill.,	111 L
Cavanaugh, Thomas Bertram,	Savannah, Ga.,	90 Nassau St.
Clark, Kenneth Sherman,	Pittsburg, Pa.,	12 E B
Clarke, Dumont, Jr.,	Dumont, N. J.,	111 L
Conger, Chauncey Stewart, Jr.,	Carmi, Ill.,	6 S E B
Conwell, George Macfeely,	Vineland, N. J.,	9 S M R
Coover, Carson,	Harrisburg, Pa.,	3 S R
Cornwall, Ellsworth Bedinger,	Princeton, N. J.,	9 E W
Coughlin, George Harper,	Norristown, Pa.,	5 W M W
Crawford, Kenneth B.,	Merion Station, Pa.,	14 B
Daddow, Samuel Harries,	St. Clair, Pa.,	73 B
Dawkins, Charles Carroll,	Bloomfield, N. J.,	15 Madison St.
De Ridder, John Howard, Jr.,	Saratoga, N. Y.,	61 L
Dodd, Thomas Nelson,	East Orange, N. J.,	2 E M W
Dong Seung,	New York City,	4 S D
Doolittle, Frederick William,	Hopkinton, Ia.,	M U
Doyle, Donald Bryce,	Pittsburg, Pa.,	43 B
Duncan, Robert Phifer,	Columbus, O.,	7 E W
†Dunham, Francis Herbert,	Baltimore, Md.,	7 U
Dunning, Lehman M.,	Indianapolis, Ind.,	10 W W
Durham, Donald Blythe,	Reading, Pa.,	17 M D
Duvall, Ralph Gilfillan,	Washington, D. C.,	148 Nassau St.
Ely, Alfred, Jr.,	New York City,	3 L P
Euwer, Eugene Courtney,	Bellevue, Pa.,	9 E W
Fales, Merton S.,	Buffalo, N. Y.,	1 S M R
Ferris, Ezra Floyd, Jr.,	Newark, N. J.,	8 S R
Fosdick, Raymond Blaine,	Buffalo, N. Y.,	10 E W
Foulke, Walter Longfellow,	Germantown, Pa.,	15 N D
Fox, Frank Boughton,	Washington, D. C.,	64 L
Fuller, Henry Mills,	Wilkes-Barre, Pa.,	95 B
Funk, John Clarence,	Harrisburg, Pa.,	3 W B
Gamble, Cecil Huggins,	Cincinnati, O.,	12 B
Gardner, Albert Sheperd,	Yazoo City, Miss.,	A, B
Garrison, Ralph Alden,	Philadelphia, Pa.,	5 S M R

† Candidate for a degree in February, 1906.

Gill, Philip Lee,	Brooklyn, N. Y.,	12 S E B
Graham, Samuel Thompson,	Dutch Neck, N. J.	
Green, Gilbert Randolph,	Buffalo, N. Y.,	27 M D
Griggs, David Craig,	Somerville, N. J.,	5 S W B
Halliday, Herbert Brotherton,	Columbus, O.,	13 B
Hamblen, Albert Arthur,	Richmond Hill, N. Y.,	4 N M R
Harris, Henry,	Newark, N. J.,	16 S M R
Hayden, Horace Edwin, Jr.,	Wilkes-Barre, Pa.,	10 S W B
Heisler, William Henry, Jr.,	Pemberton, N. J.,	7 S R
Herr, Odin Arvine,	Harrisburg, Pa.,	B, W B
Hilliard, Edward Hobbs,	Louisville, Ky.,	6 W M W
Hirsch, Walter A.,	New York City,	6 N R
Hoe, Peter Smith, Jr.,	New Brunswick, N. J.,	8 S R
Holden, John,	Newark, N. J.,	51 L
Holland, Moorhead Benezet,	Pittsburg, Pa.,	7 U
Horner, Charles,	Philadelphia, Pa.,	12 Park St.
Hull, Robert Alonzo,	Scranton, Pa.,	4 N R
Hunter, Lum,	Paris, Ill.,	5 N D
Irwin, Watson,	Springfield, Ill.,	4 N R
Janvrin, Edmond Randolph Peaslee,	New York City,	5 M D
Johnson, William Fell, Jr.,	Baltimore, Md.,	7 U
Jones, Harry Seaver,	East Orange, N. J.,	6 W M W
Kampmann, Isaac Simpson,	San Antonio, Tex.,	10 N D
Kane, George, Jr.,	Highlandtown, Md.,	16 Alexander St.
Kauffmann, Rudolph Max,	Washington, D. C.,	12 E W
Kelso, William Gordon, Jr.,	Jersey City, N. J.,	17 W W
Koch, Scott Lorain,	Lyon Station, Pa.,	19 N W
Leake, Robert Highet,	New York City,	3 N D
Leavitt, Horace Hall, Jr.,	Somerville, Mass.,	15 S W
Lewis, Winfred Davis,	Lansford, Pa.,	21 M D
Limerick, Frederick Buck,	Philadelphia, Pa.,	D, W B
Littell, William Bernard,	Newark, N. J.,	34 B
Little, Edward Harsen,	Morristown, N. J.,	32 L
Lloyd, Henry,	Pittsburg, Pa.,	11 S W
Lyon, Chester Arthur,	East Orange, N. J.,	6 W M W
McAlpin, Kenneth Rose,	Ossining, N. Y.,	35 U
McCandless, William Thomas,	Euclid, Pa.,	68 B S
MacCauley, Harvey,	Trenton, N. J.,	19 N W
MacCrellish, William Howard,	Trenton, N. J.,	5 U P
McDonald, John Oliver,	Englishtown, N. J.,	17 M D
†McGee, Bennington Fitz-Randolph,	Jersey City, N. J.,	13 S W

† Candidate for a degree in February, 1906.

McIlvaine, Richard Biddle,	Pittsburg, Pa.,	U, U
McKinlay, Edwin Lawrence,	Portland, Ore.,	83 B
McNiece, Irwin,	Salt Lake City, Utah,	2 N R
Maddux, Charles Vincent,	Glen Rock, Pa.,	2 S M R
Magee, Eugene Harper,	East Orange, N. J.,	9 B
Man, Ellery Anderson,	New York City,	6 B
Mann, Peter Carter,	Bloomfield, N. J.,	2 E M W
Mason, James Gilbert, Jr.,	Metuchen, N. J.,	8 S E B
Mathews, Charles Henry, Jr.,	Philadelphia, Pa.,	64 B
Mayers, John Mickle,	Kittanning, Pa.,	34 B
Messler, James Stevens,	Trenton, N. J.,	21 L
Mierow, Charles Christopher,	Lakewood, N. J.,	44 Mercer St.
Milliken, Henry Oothout,	Stamford, Conn.,	132 L
Milton, Henry Stites,	Ridley Park, Pa.,	43 B
Minott, Harold,	New York City,	162 L
Monie, Charles Cockburn,	West Pittston, Pa.,	3 W W
Moore, Frank Shepherd,	Perth Amboy, N. J.,	2 N R
Mount, Horace,	Sea Girt, N. J.,	3 S R
Mowry, Theodore Clayton,	Rome, N. Y.,	15 L
Mullen, Frank Weaver, Jr.,	Centre Valley, Pa.,	21 M D
Murfree, Matthias Brickells,	Murfreesboro, Tenn.,	10 N R
Nelson, Stanley Foushee,	Winchester, Ky.,	5 S D
Newell, James Alexander,	Port Deposit, Md.,	V, U
Ogden, Bryan Kneass,	Orange, N. J.,	9 B
Olyphant, Murray,	Englewood, N. J.,	9 B
Osborn, Alexander Perry,	New York City,	162 L
Peabody, George Russell,	New York City,	8 L P
Pearl, William Ellery,	New York City,	148 Nassau St.
Phelan, James,	Washington, D. C.,	64 L
Phillips, Alroy Scolley,	St. Louis, Mo.,	5 S R
Poindexter, Urban Hatfield,	Topeka, Kans.,	61 L
Pond, David Stirling,	New York City,	81 B
Ream, Edward King,	Thompson, Conn.,	111 L
Reinhart, Francis Ormond,	Plainfield, N. J.,	15 N D
Richardson, Edgar,	Bernville, Pa.,	10 S E B
Richardson, William McLemore,	Murfreesboro, Tenn.,	31 B
Roper, James Gowen,	Philadelphia, Pa.,	16 E W
Rulon-Miller, John, Jr.,	Haverford, Pa.,	6 N D
Rutherfoord, Alexander Hawksley,	Roland Park, Md.,	10 W M W
Rutter, Joseph Wood,	Irvington-on-Hudson, N. Y.,	14 B
Sanford, Edwards Sewall, Jr.,	South Orange, N. J.,	11 N D
Short, Harold Hall,	St. Louis, Mo.,	2 N D

Slaughter, Rochester Beatty,	Chicago, Ill.,	153 L
Spangler, John Walter,	Mercersburg, Pa.,	4 N M R
Stevens, Washington Lewis,	Hoboken, N. J.,	23 B
Stewart, John Aikman, 3d,	Short Hills, N. J.,	186 L
Stewart, Vance,	Cleveland, O.,	43 B
†Stoutenburgh, Robert Bartholomew,	Newark, N. J.,	152 L
Stratton, Henry Mayer,	Trenton, N. J.,	2 E M W
Stutesman, John Hale,	Peru, Ind.,	11 N D
Sutton, C. Kemper,	Indiana, Pa.,	10 N R
Taylor, James Clark,	East Craftsbury, Vt.,	D, W B
Terry, John Loving,	Louisville, Ky.,	2 S W B
Thomas, Norman Mattoon,	Lewisburg, Pa.,	2 N R
Thompson, Charles Dederer, Jr.,	Montclair, N. J.,	95 B
Thompson, James Roderick,	Ogden, Utah,	15 S M R
Trent, Edmund Kiernan,	Pittsburg, Pa.,	16 E W
Trone, Royal Eugene,	Spring Forge, Pa.,	2 S M R
Van Doren, Willard Voorhees,	Peekskill, N. Y.,	30 S Ed
Wade, Simon Franklin,	Hackettstown, N. J.,	8 N R
Walter, Howard Arnold,	New Britain, Conn.,	63 B
Ward, Clarence,	Thompson, Conn.,	122 L
Ward, Edward S.,	Rochester, N. Y.,	23 B
Warren, Frederick Leslie,	Warrenton, Ore.,	2 M D
Wells, George Titus,	Glen Moore, N. J.,	52 B
West, Davenport,	Galveston, Tex.,	12 B
White, John McCahan,	Baltimore, Md.,	1 A S
Wilsey, James Arthur,	New York City,	41 B
†Wilson, Robert Marshall,	Milton, Pa.,	122 L
Winnemore, John,	Trenton, N. J.,	5 A S
Wright, Clarence Edgerton,	Washington, D. C.,	64 L
Wyckoff, John Robins,	Princeton Junction, N. J.,	21 L
Young, Roger,	Newark, N. J.,	2 N D
Zink, Homer Charles,	Newark, N. J.,	11 S D

ACADEMIC SENIORS, ... 175

† Candidate for a degree in February, 1906.

Academic Junior Class

Alexander, James Addison McMillan,	Jackson, Miss.,	70 U
Anders, William Heebner, Jr.,	Lansdale, Pa.,	3 S W
Anderson, John Bouker,	Madison, N. J.,	52 '79 H
†Armstrong, Wynn,	Camden, N. J.,	12 S W B
Atherton, Thomas Henry, Jr.,	Wilkes-Barre, Pa.,	84 B
Bannwart, Alexander William,	Boston, Mass.,	131 L
Barnes, Kenneth Bigham,	Council Bluffs, Ia.,	19 S W
Barr, Robert Irving,	Orange, N. J.,	71 B
Beaty, Julian Bonar,	Georgetown, S. C.,	1 W B
Bell, Donald Weldon,	Bradford, Pa.,	14 S W
Berry, Frank Allen,	Nashville, Tenn.,	11 N W
Bird, Singleton Hinman,	New York City,	13 '79 H
Black, Alfred Lawrence, Jr.,	Bellingham, Wash.,	8 M D
Bliss, Harry Ferdinand,	Newark, N. J.,	9 M D
Bradford, Edward Wild,	Mill Brook, Mass.,	12 N D
Brandon, James Campbell,	Butler, Pa.,	9 E B
Brooks, John Nixon,	Trenton, N. J.,	52 L
Brown, Bruce Whiting,	Glendale, O.,	62 B
Brown, Horace,	Baltimore, Md.,	8 E B
Burton, Granville Lindsay,	Louisville, Ky.,	11 W W
Butler, Ethan Flagg,	Washington, D. C.,	11 U P
Calverley, Edwin Elliott,	Philadelphia, Pa.,	1 N D
Campbell, John Laurence,	Brooklyn, N. Y.,	47 Univ. Pl.
Caskey, Robert Edgar,	Philadelphia, Pa.,	1 N D
Cecil, Stuart Robinson,	Louisville, Ky.,	7 W M W
Chamberlain, Benjamin Franklin,	Chester, N. Y.,	2 S E B
Cole, Philip Gillett,	Helena, Mont.,	19 M D
Connolly, Harry John,	Scranton, Pa.,	5 N R
Cossitt, Frederick Henry,	New York City,	52 '79 H
Coxe, Marshall,	St. Paul, Minn.,	7 N R
Cresse, George Hoffman,	Swainton, N. J.,	10 N M R
Cunningham, George Smith,	Blairsville, Pa.,	133 L
Cunningham, Warren Wardlaw,	Yazoo City, Miss.,	21 Boudinot St.
Dages, Oren Newton,	Columbus, O.,	14 L
Davis, James Everett,	Scranton, Pa.,	5 N R
Davison, Walter Seaman,	Hightstown, N. J.,	12 W B
De Turck, James,	Esterly, Pa.,	20 S W

† Candidate for a degree in February, 1907.

Dorman, Roderick Aitken,	New York City,	18 U P
Douglas, Lee,	Nashville, Tenn.,	64 '79 H
Douglas, Richard, Jr.,	Nashville, Tenn.,	19 M D
Durham, Fred Stranahan,	Philadelphia, Pa.,	9 S E B
Durham, Joseph Edward, Jr.,	Philadelphia, Pa.,	9 S E B
Edwards, Deane,	St. Paul, Minn.,	7 N R
Ely, John Montague,	Cedar Rapids, Ia.,	4 S M R
Fairing, Robert Paterson,	Springfield, Mass.,	Mercer Manor
Fish, Henry Denison,	Hempstead, N. Y.,	10 E M W
Fleming, Samuel Wilson, Jr.,	Harrisburg, Pa.,	84 B
Fowler, Archibald Kennedy, Jr.,	Caledonia, N. Y.,	9 E B
Franklin, William Henry,	Hightstown, N. J.,	9 E B
Froelick, Louis Daniel,	Brooklyn, N. Y.,	31 L
Furman, Benjamin Applegate,	Newark, N. J.,	12 W B
Galt, Robert Barnes,	St. Louis, Mo.,	22 L
Gerhard, Edward Ashley,	East Orange, N. J.,	8 E M W
Gilmore, James,	Philadelphia, Pa.,	5 N M R
Glass, Frank Purnell,	Montgomery, Ala.,	14 S D
Goas, Harry Jacob,	Schuylkill Haven, Pa.,	13 S D
Gopsill, James Whiting,	Jersey City, N. J.,	17 S W
Greene, Clayton Wellington,	Buffalo, N. Y.,	10 E W
Hamilton, Sinclair,	Englewood, N. J.,	133 L
Hamilton, Thomas Parker,	Harrisburg, Pa.,	6 W B
Harris, Arthur,	Newark, N. J.,	19 S M R
Hay, William Woodhull,	Englewood, N. J.,	5 N W
Hegeman, Runkle Fisher,	Princeton, N. J.,	20 Alexander St.
Hildreth, William Warren,	Southampton, N. Y.,	6 W B
Hill, Frederick Stubbins,	Britt, Ia.,	9 W W
Hinds, Roger,	Richmond Hill, N. Y.,	2 S D
Hoag, Raymond Clarence,	Waterford, N. J.,	12 S D
Hobbie, Lawrence St. John,	Newark, N. J.,	13 N W
Hoen, Frank Jillard,	Baltimore, Md.,	22 B
Holden, Edward Packard, Jr.,	Madison, N. J.,	71 B
Hovey, Foster Albert,	Hardwick, Vt.,	21 B
Howie, Brison,	Philadelphia, Pa.,	15 M D
Hoyt, William Studley,	Jamaica, N. Y.,	3 N R
Jackson, James Kenney,	Harrisburg, Pa.,	12 W B
Jones, Robert Harrison, Jr.,	Atlanta, Ga.,	3 N R
Kahler, Henry Christian,	Buffalo, N. Y.,	62 '79 H
Kallina, Emanuel John,	Chester, N. Y.,	19 S W
Kienbusch, Carl Otto v.,	New York City,	62 '79 H
†Kirkpatrick, Littleton,	Newark, N. J.,	42 L

† Candidate for a degree in February, 1907.

Kline, Frederick Luther,	Ridgway, Pa.,	D, U
Leggett, Schuyler Maurice,	West New Brighton, N. Y.,	12 M D
Leslie, Eugene Hamilton,	Columbus, O.,	7 S W B
Libby, Francis Orville,	Portland, Me.,	4 S R
Lightcap, Harrison Barksdale, Jr.,	Yazoo City, Miss.,	8 N M R
Lloyd, William Hendrie,	Philadelphia, Pa.,	15 N W
McClure, Alfred, Jr.,	Wyncote, Pa.,	33 '79 H
MacCoy, William Logan,	Bryn Mawr, Pa.,	96 B
Macdonald, Gordon, Jr.,	New York City,	1 L P
McEwen, Kenneth Martin,	Amsterdam, N. Y.,	15 E W
McGiffert, Julian Esselstyn,	Roselle, N. J.,	35 L
Mackenzie, Charles Arthur,	Portland, Ore.,	83 B
McKimmie, Alexander Anderson,	Pictou, Nova Scotia,	9 S R
McLeod, Archibald Angus, Jr.,	Princeton, N. J.,	171 L
Macpherson, Donald Fraser,	St. Louis, Mo.,	42 L
Macpherson, John Francis,	Springfield, Ill.,	38 L
McPherson, Oscar Harmon,	Lawrenceville, N. J.,	17 B
Marquis, Chester Du Bois,	Bloomington, Ill.,	61 '79 H
Maurice, Albert Touzalin,	Athens, Pa.,	15 N W
Messler, Daniel Ivins,	Hightstown, N. J.,	Kingston, N. J.
Miller, John,	Masontown, Pa.,	7 N W
Mixsell, Harold Ruckman,	Easton, Pa.,	9 S W B
Musser, Clayton Arthur,	Harrisburg, Pa.,	10 E M W
Nash, Francis John,	Manitowoc, Wis.,	2 B
Nason, Fred Russell,	Somerville, Mass.,	131 L
Neis, Walter Charles,	Madison, N. J.,	11 E W
Nicholls, Charles Chamberlain, Jr.,	St. Louis, Mo.,	2 B
Offutt, George Warren,	Washington, D. C.,	6 W B
Ormond, John Kelso,	Princeton, N. J.,	276 Nassau St.
Oves, Gilbert McCauley,	Harrisburg, Pa.,	12 N M R
Palmer, Edward Albert,	Houston, Tex.,	7 W M W
Pearl, Dyer, Jr.,	New York City,	148 Nassau St.
Petrie, James Judd,	Redfield, N. Y.,	7 N M R
Phillips, MacNair Atwater,	Scranton, Pa.,	11 S E B
Pierce, Henry Douglas, Jr.,	Indianapolis, Ind.,	5 E M W
Pierson, Howard Olmstead,	Norwalk, Conn.,	2 S D
Pitts, Richard Steadman,	Warwick, N. Y.,	12 N W
Price, Cole Britton,	Scranton, Pa.,	11 S E B
Pyle, James McAlpin,	New York City,	9 L P
Quintard, Charles Louis,	Poughkeepsie, N. Y.,	9 M D
Rebert, Charles Muthart,	Pottstown, Pa.,	7 W W
Reid, Samuel Jackson, Jr.,	Brooklyn, N. Y.,	31 L

Rentschler, Robert Peter,	Hamilton, O.,	7 W B
Richard, Harold Charles,	New York City,	4 B
Richardson, Raymond Beatty,	Cleveland, O.,	35 L
†Rollins, Frank Bingham,	Columbia, Mo.,	2 B
Schaff, Philip Haynes,	Allegheny, Pa.,	133 L
Schwob, Henri,	New York City,	3 B
Seeley, Paul Stark,	Poughkeepsie, N. Y.,	22 '79 H
Shipman, Jehiel Gardner,	Belvidere, N. J.,	35 L
Shoemaker, Isaac Loper,	Bridgeton, N. J.,	12 S W B
Simons, Frank Peterson,	Plainfield, N. J.,	15 B
Simpson, Randolph Stewart,	Washington, D. C.,	16 N W
Sinclair, Sidney Meroyn,	Cedar Rapids, Ia.,	96 B
Smith, Homer Dewhurst,	Pittsburg, Pa.,	97 B
Smith, Sherburn Merrill,	Milwaukee, Wis.,	1 E M W
Spohn, George Samuel,	Krumsville, Pa.,	13 S D
Stanley, Edward Otis, Jr.,	East Orange, N. J.,	5 N W
Stewart, George Black, Jr.,	Auburn, N. Y.,	9 N W
Stites, John Hunt,	Louisville, Ky.,	42 B
Stockton, Bayard, Jr.,	Princeton, N. J.,	4 W M W
Strater, Charles Helme,	Louisville, Ky.,	86 Nassau St.
Sullivan, Paul Barrett,	Philadelphia, Pa.,	A, E B
Sunstein, Elias,	Allegheny, Pa.,	46 L
Tooker, Norman Brown,	East Orange, N. J.,	61 '79 H
Trace, Joseph Montgomery,	Harrisburg, Pa.,	1 M D
Ullmann, Frederic, Jr.,	Chicago, Ill.,	5 B
Uptegrove, Gifford Mills,	Brooklyn, N. Y.,	5 E M W
Urban, Percy Linwood,	Royersford, Pa.,	38 L
Vaughan, Donald Cuyler,	Garden City, N. Y.,	64 '79 H
Venable, Edward Carrington, Jr.,	Petersburg, Va.,	32 '79 H
Voorhees, Clifford Irving,	New Brunswick, N. J.,	36 L
Walker, Henry Babcock,	Evansville, Ind.,	84 B
Williams, Raymond Storm,	Glen Ridge, N. J.,	7 N M R
Woodward, Thomas Mullen,	Philadelphia, Pa.,	4 S E B
Worth, Archibald Carter, Jr.,	Cresskill, N. J.,	4 N D

ACADEMIC JUNIORS, ... 155

† Candidate for a degree in February, 1907.

Academic Sophomore Class

Adams, Albert Lloyd,	Johnstown, Pa.,	18 N W
Albro, Preston Morris,	Fredonia, N. Y.,	13 N Ed
Anders, Monroe Heebner,	Fairview Village, Pa.,	7 E B
Barrows, Dudley Hammond,	Plainfield, N. J.,	18 M D
Barrows, Walter Loring,	Greenwich, Conn.,	121 L
Baskerville, Howard Conklin,	Edgemont, S. Dak.,	18 S Ed
Beers, Albert Daniel,	Plainfield, N. J.,	18 Van Deventer Av.
Bell, John Slagle,	Du Bois, Pa.,	L, U
Bentley, Herbert,	Newton, N. J.,	Hill
Bixby, Edward Welles,	Wilkes-Barre, Pa.,	88 Nassau St.
Bond, Allen McKee,	Lawrenceburg, Ky.,	11 N M R
Brakeley, George Archibald,	Dunellen, N. J.,	141 L
Breckinridge, Henry Skillman,	Washington, D. C.,	41 L
Brown, Ralph Manning,	Elizabeth, N. J.,	66 Nassau St.
Brownell, Ralph Chadwick,	Walden, N. Y.,	7 E B
Bunn, Benjamin Franklin,	Parkesburg, Pa.,	121 L
Carber, Frank Hough,	Newton, N. J.,	K, U
Chislett, John Renshaw,	Pittsburg, Pa.,	6 S W B
Clark, Cassius Brutus,	Cleveland, O.,	8 W W
Coale, Sidney Thompson,	Toms River, N. J.,	2 S W
Coan, Hamilton Morel,	New York City,	20 N W
Conver, Samuel Dresher,	Lansdale, Pa.,	13 N M R
Cooney, James Lawrence,	Scranton, Pa.,	25 M D
Cory, Lowrie D.,	Falmouth, Ky.,	37 S Ed
Cummings, Hubertis Maurice,	Harrisburg, Pa.,	6 N M R
Cunningham, John Howard,	Annapolis, Md.,	141 L
Daggette, William Morton Clair,	Pittsburg, Pa.,	144 Nassau St.
Davis, Roblin Henry,	Denver, Col.,	16 W W
Deems, Charles Price,	Hornellsville, N. Y.,	92 B
Dempster, Arthur Albion,	Pittsburg, Pa.,	Hill
Dillon, Herbert Lowell,	Fitchburg, Mass.,	35 U
Draper, Robert Allan,	Syracuse, N. Y.,	124 L
Duff, George Morgan,	Carnegie, Pa.,	23 L
Dunbar, Hooper Cameron,	Salt Lake City, Utah,	7 E M W
Dunn, Charles Wesley,	Brooklyn, N. Y.,	27 M D
Durell, Thomas Jackson,	Lawrenceville, N. J.,	23 '79 H
Dutcher, Burchard,	Brooklyn, N. Y.,	80 Nassau St.
Evans, John Wainwright,	Miles City, Mont.,	4 N W

Farr, Thomas Henry Powers, Jr.,	West Orange, N. J.,	11 L P
Farrell, Frank Ingersoll,	Newton, N. J.,	5 S W
Fowler, Arthur Boughton,	Springville, N. Y.,	9 N Ed
Frontz, William Archibald,	Hughesville, Pa.,	211 Nassau St.
Fullerton, David Humphrey,	Princeton, N. J.,	8 Chestnut St.
Funk, Erwin Deaterley,	Quakertown, Pa.,	20 S W
Galt, Charles Franklin,	St. Louis, Mo.,	22 L
Garretson, James,	Elmhurst, N. Y.,	15 S D
Gee, Howard James,	East Orange, N. J.,	26 M D
Goas, Horace Zweizig,	Schuylkill Haven, Pa.,	14 N M R
Goodwin, France Laurence,	Baltimore, Md.,	15 S D
Gordon, James Gay, Jr.,	Philadelphia, Pa.,	20 U P
Greski, Thaddeus,	Philadelphia, Pa.,	C, E B
Griscom, William Morris, Jr.,	Bryn Mawr., Pa.,	37 Wiggins St.
Hagan, Hugh,	Springfield, O.,	F, W B
Haight, Harry William,	Earlville, Ill.,	26 M D
Halsted, Douglas,	New York City,	24 '79 H
Haney, Harvey S.,	Richland Centre, Pa.,	14 S M R
Hansl, Raleigh Hammond,	New York City,	7 S M R
Hart, John Francis,	Philadelphia, Pa.,	13 S M R
Hartzell, Jacob Lott,	York, Pa.,	7 S M R
Hendrickson, James Allaire,	Red Bank, N. J.,	10 S R
Henricks, Walter Abraham,	Philadelphia, Pa.,	9 S Ed
Herold, Herman Cleveland Herbert, Jr.,	Newark, N. J.,	11 S D
Herrick, Horace Terhune,	New York City,	10 M D
Herring, Donald Grant,	Bloomsburg, Pa.,	8 S W B
Hewitt, Joseph Frederick,	New York City,	6 E M W
Hobbs, Austin Latting,	Vandalia, Ill.,	4 W W
Holt, Cleveland Byron,	Portland, Ore.,	21 S Ed
Hooks, David Munro,	Holyoke, Mass.,	18 N W
Hopkins, George Dare,	Rising Sun, Md.,	A, E B
Howell, Edmund Orlando, Jr.,	Philadelphia, Pa.,	4 M D
Hulsizer, William Richey,	Asbury, N. J.,	5 E W
Huntting, Gilbert Napier,	Madison, N. J.,	40 U
Hyde, Wesley Middleton, Jr.,	Academia, Pa.,	60 B S
Jamieson, Edmund Scudder,	Lawrenceville, N. J.,	11 '79 H
Jenanyan, Samuel Stephen,	Philadelphia, Pa.,	3 S W
Johnson, Harry McClure,	Peoria, Ill.,	121 L
Joline, John Forsyth, Jr.,	Philadelphia, Pa.,	17 E W
Jones, David Robert,	Wilkes-Barre, Pa.,	9 N D
Keepers, William Lloyd,	Newark, N. J.,	90 Nassau St.
Kellogg, Robert Wallis,	Sewickley, Pa.,	44 A H S

Kerr, William McConkey,	Elizabeth, N. J.,	31 '79 H
Kilpatrick, George Worth,	Connellsville, Pa.,	L, U
Klotz, Fred Guth,	Northampton, Pa.,	16 N Ed
Krause, Arthur Krupp,	Lansdale, Pa.,	14 S M R
Landis, Robert Kumler,	Dayton, O.,	15 U
Larson, Theodore Emil,	Kemmerer, Wyo.,	15 S M R
Lewman, Henry Peters,	Louisville, Ky.,	80 Nassau St.
Lithgow, Leslie Gordon,	New York City,	24 '79 H
Losey, Leon Artemus,	Nelson, Pa.,	9 N R
Louderbough, John Janvier,	Salem, N. J.,	16 S W
Love, George Stroman,	York, Pa.,	Hill
Lunn, Arthur Washington,	Newark, N. J.,	1 E W
McClintock, Andrew Todd,	Wilkes-Barre, Pa.,	Hill
McClintock, Charles Arbuthnot,	Pittsburg, Pa.,	66 Nassau St.
McIntyre, Newell Wood,	Denver, Colo.,	2 W M W
Mackie, Alexander,	Philadelphia, Pa.,	4 E B
McLean, Donald,	Denver, Colo.,	10 S W
McLean, William Eaton,	Philadelphia, Pa.,	5 N M R
McNiece, Renwick Sloane,	Salt Lake City, Utah,	79 U
Martin, James Littell, Jr.,	Belleville, N. J.,	172 L
Martin, Johnson,	Glen Ridge, N. J.,	92 B
†Mathews, Thomas Rose,	Princeton, N. J.,	6 E B
Matthews, William,	Scranton, Pa.,	10 N W
Miles, Alfred Robberts,	Brooklyn, N. Y.,	C, U
Morris, McLean Forman,	New York City,	11 E B
Moyer, Winfield Tyson,	Lansdale, Pa.,	18 S M R
Muller, James Arthur,	Philadelphia, Pa.,	8 N Ed
Neill, George Gillespie Evans,	Helena, Mont.,	266 Nassau St.
Norton, Philander,	Albion, N. Y.,	4 S W B
Nutt, John Budd,	Williamsport, Pa.,	82 Nassau St.
Parker, Harold Thompson,	Oil City, Pa.,	C, U
Pears, Thomas Clinton, Jr.,	Pittsburg, Pa.,	54 L
Rentschler, Gordon Sohn,	Hamilton, O.,	A, U
Richardson, Leslie Kirk,	Little Falls, N. Y.,	53 B
Riggs, James Forsyth, Jr.,	East Orange, N. J.,	9 N D
Roche, Charles Edward,	East Orange, N. J.,	24 M D
Sargent, George Lloyd,	Philadelphia, Pa.,	19 W W
Sayre, John Nevin,	South Bethlehem, Pa.,	23 '79 H
Schultz, Chester Kriebel,	Bechtelsville, Pa.,	12 S M R
Schumaker, Isaac Ripple,	White Haven, Pa.,	54 B
Scott, Donald,	Chicago, Ill.,	14 W W

† Candidate for a degree in February, 1908.

Scudder, Charles Damarin,	Portsmouth, O.,	11 '79 H
Seitz, Charles Henry,	Philadelphia, Pa.,	19 W W
Shaw, Henry Newton,	Colora, Md.,	41 L
Shirley, Rome,	Mamont, Pa.,	11 M D
Sidebotham, Robert Simpson,	Lake City, Mich.,	16 Witherspoon St.
Sloan, Alexander Kilgore,	Greensburg, Pa.,	93 B
Sloane, George,	New York City,	17 N W
Smith, Clyde Fuller,	Islington, Mass.,	17 N W
Smith, Frederick Newton,	East Worcester, N. Y.,	38 Washington Road
Smith, John Henry,	Newark, N. J.,	172 L
Smith, Lon Champlin,	St. Louis, Mo.,	15 U
Sohmer, Harry Joseph,	New York City,	20 W W
Spearman, Thomas Clark,	Wheaton, Ill.,	172 Nassau St
Spencer, Judah Colt,	Erie, Pa.,	183 L
Stainback, Ingram Macklin,	Somerville, Tenn.,	10 N R
Steele, Leverett Spencer,	New York City,	90 Nassau St.
Sterritt, Robert John,	Philadelphia, Pa.,	1 S D
Thomas, William Leonard,	New York City,	26 M D
Thomson, McLeod,	Altoona, Pa.,	162 Nassau St.
Timmons, William Max,	Kenton, O.,	44 L
Valentine, Henry Dickson,	Brooklyn, N. Y.,	19 E W
Van Deusen, Courtland Calvin, Jr.,	Canaan Four Corners, N. Y.,	Dodge Hall
Vandewater, William Collins,	Princeton, N. J.,	45 Van Deventer Av.
Van Sant, Robert Morriss,	Newark, N. J.,	6 E M W
Waite, Joseph Raymond,	Warrior's Mark, Pa.,	22 M D
Walker, Edward Washburn,	Brooklyn, N. Y.,	88 Nassau St.
Walker, George Alex, Jr.,	Philadelphia, Pa.,	4 M D
Walsh, Arthur Bernard,	Brooklyn, N. Y.,	5 E B
Ward, Waldron Merry,	Newark, N. J.,	1 E W
Waterhouse, Paul Bernard,	Pasadena, Cal.,	9 N R
Weiser, Herbert David John,	Topton, Pa.,	19 S Ed
Whitelaw, Hamilton Dey,	St. Louis, Mo.,	15 U
Wiener, Isidore Kalisch,	Newark, N. J.,	B, U
Willett, Seymour Barrett,	Elizabeth, N. J.,	16 B
Williams, Lewis Jeffery,	Bel Air, Md.,	51 '79 H
Wilson, William Walter,	Milton, Pa.,	8 S W B
Wood, John Robinson,	Stanley, N. Y.,	16 S W
Wooden, Charles Carroll,	Hampstead, Md.,	7 S E B

Worth, Huntting Case,	Bridgehampton, N. Y.,	143 L
Wuerth, Gustav Christopher,	Montclair, N. J.,	53 B
Wyckoff, Earle Edgerton,	Stroudsburg, Pa.,	276 Nassau St.

ACADEMIC SOPHOMORES, ... 162

ACADEMIC FRESHMAN CLASS

Abbey, Henry, Jr.,	Baltimore, Md.,	34 Van Deventer Av.
Bacon, Walter Harris, Jr.,	Bridgeton, N. J.,	34 Van Deventer Av.
Baker, Elmer Wayne,	Jamaica, N. Y.,	46 U
Barrett, Hugh Campbell,	Newark, N. J.,	181 L
Beall, Louis Erwin, Jr.,	Uniontown, Pa.,	2 Nassau St.
Bell, John Arner, Jr.,	Carnegie, Pa.,	19 Univ. Pl.
Benjamin, Judson Everett,	New York City,	148 Nassau St.
Berry, William Ransted,	Philadelphia, Pa.,	31 Nassau St.
Boynton, Frank Lane,	New York City,	18 Van Deventer Av.
Braddock, William Hallock,	Jersey City, N. J.,	17 S Ed
Brennan, Eugene Ambrose,	Edwardsdale, Pa.,	164 Nassau St.
Brook, Charles,	Princeton, N. J.,	Ewing St.
Bruce, John Marshall Hills,	Baltimore, Md.,	47 Univ. Pl.
Butler, LaFayette Lentz,	Park Place, Pa.,	168 Nassau St.
Cameron, Merton Kirk,	North East, Md.,	24 Chambers St.
Carey, Charles Donald,	Stroudsburg, Pa.,	15 S Ed
Carey, John Aloysius,	Brooklyn, N. Y.,	45 U
Catlin, Randolph,	Brooklyn, N. Y.,	P, U
Chalmers, Alan Reid,	New York City,	14 Van Deventer Av.
Christie, Robert Dobbie,	Allegheny, Pa.,	14 M D
Clark, Thomas Street,	Cortland, N. Y.,	2 N W
Cohen, Alfred Harold,	Brooklyn, N. Y.,	10 N Ed
Cook, Robert Sutherland,	Cedar Rapids, Ia.,	53 Univ. Pl.
Coons, John Constine,	Wilkes-Barre, Pa.,	11 Univ. Pl.
Coyle, David Cushman,	North Adams, Mass.,	5 S Ed
Cummings, Louis Curtiss,	Brooklyn, N. Y.,	47 Univ. Pl.
Davey, William Oscar,	East Orange, N. J.,	22 Ed. Pl.
Davis, Clifford Sylvester,	Anniston, Ala.,	32 S Ed
Dick, John Julian,	New York City,	29 U P
Dulles, John Foster,	Watertown, N. Y.,	27 Mercer St.

Dunham, Calvin Thompson, Basking Ridge, N. J., 16 Witherspoon St.
Dunn, William Parmly, Philadelphia, Pa., 10 E M W
Durstine, Roy Sarles, Brooklyn, N. Y., 39 Van Deventer Av.
Elliott, Harry William, Murfreesboro, Tenn., 33 B
Elsing, Warren, Brooklyn, N. Y., 31 '79 H
Elwood, Vincent Nathan, Downsville, N. Y., 42 Wiggins St.
Farley, John Gallagher, Jr., Anniston, Ala., 13 S Ed
Finney, William Parker, Jr., Moorestown, N. J., 9 N M R
Foster, William Early, Atlantic Highlands, N. J., 46 Van Deventer Av.
French, Charles Howard, Pittsfield, Mass., 41 N Ed
Fruit, Fred Thomas, Sharon, Pa., 9, 10 U
Gill, William Augustus, Brooklyn, N. Y., 47 Univ. Pl.
Gilmour, Howard Coombs, Fanwood, N. J., 181 L
Gilson, Samuel Loren, Erie, Pa., 31 N Ed
Glass, John Purnell, Montgomery, Ala., 14 S D
Glazebrook, Otis Allan, Jr., Elizabeth, N. J., 41 '79 H
Glenn, Robert Crispin, Berwick, Pa., 164 Nassau St.
Grau, Walter Henry Ferdinand, Louisville, Ky., 12 Park St.
Green, Joseph Coy, Cincinnati, O., 45 Univ. Pl.
Greene, Clinton Jennings, Havana, Cuba, 168 Nassau St.
Haley, Ralph Jandt, Sioux City, Ia., 29 Van Deventer Av.
Handy, David Markham, New Orleans, La., 190 Nassau St.
Harlan, Edwin Hanson Webster, Bel Air, Md., 8 S M R
Harrison, John Ward, Fort Worth, Tex., 15 Chambers St.
Haulenbeck, James White, Walton, N. Y., 32 Wiggins St.
Hawes, Edward Prince, Pittsburg, Pa., 14 M D
Heagey, Francis Wenger, Cochranville, Pa., 20 S Ed
Hill, Rodney, Jr., Britt, Ia., 9 W W
Hosford, Charles Franklin, Butler, Pa., 32 Wiggins St.
Jack, Sydney Ferguson, Hazleton, Pa., 19 N Ed
Jackson, Job H., Jr., Wilmington, Del., 31 Univ. Pl.
Johnson, Wade McCall, Ogden, Utah, 22 N Ed
Jones, Henry Lester, East Orange, N. J., 22 Ed. Pl.
Jones, Robert Breckinridge, Louisville, Ky., 68, 69 U
Joy, Henry Emil, Barranquilla, Colombia, S. A., 168 Nassau St.
Kalisch, Isidore, Newark, N. J., B, U
Kauffman, James Lee, Columbia, Pa., 19 Univ. Pl.
Keepers, George Alfred, The Dalles, Ore., 4 U
Kerr, James Thomas, Erie, Pa., 26 Edwards Pl.

Knott, Lewis Atwood, Louisville, Ky., 12 Park Pl.
Krieble, Isaac Reiff, Norristown, Pa., 40 S Ed
La Dow, Charles Worth, Albany, N. Y., 22 Madison St.
Lanning, Kenneth Hemenway, Trenton, N. J., 34 Van Deventer Av.
Leavitt, Erasmus Darwin, Somerville, Mass., 15 S W
Leonard, George Alexander, Syracuse, N. Y., 7 U P
Lothrop, George Van Ness, 2d, Detroit, Mich., 11 Dickinson St.
McCarter, George William Childs, Newark, N. J., 54 '79 H
McClintock, Gilbert Stuart, Wilkes-Barre, Pa., 39 Univ. Pl.
McLean, Edward Huntington, San Juan, Porto Rico, 40 N Ed
McNair, Robert Shankland, Belleville, N. J., 26 S Ed
Marshall, Trenholm Hatch, St. Louis, Mo., 19 Univ. Pl.
Martin, George Wade, Somerville, Mass., 131 L
Mecabe, Ernest Wilson, Orange, N. J., 22 Ed. Pl.
Mettler, Thomas Holcombe, East Millstone, N. J., 42 Wiggins St.
Miers, Edward Derr, Trenton, N. J., 34 Van Deventer Av.
Miller, Everard Patterson, Jr., Newark, N. J., 14 Chambers St.
Miller, Kenneth Dexter, Roselle, N. J., 22 Ed. Pl.
Mitchell, Samuel Stewart, Buffalo, N. Y., 38 Stockton St.
Moses, Paul Emanuel, New York City, 172 Nassau St.
Moss, George Kimmel, Hagerstown, Md., 45 Univ. Pl.
Myers, John Platt, Plattsburg, N. Y., 32 Wiggins St.
Niles, Michael Schall, York, Pa., 39 Van Deventer Av.
Nuttall, John, Nuttallburg, W. Va., 2 Nassau St.
Ormond, Archie Huston, Princeton, N. J., 276 Nassau St.
Overton, Grant Martin, Patchogue, N. Y., 32 Mercer St.
Patrick, William Brownlow, Denver, Col., 62 U
Peirce, Caleb Clarence, Philadelphia, Pa., 11 Dickinson St.
Pfeiffer, Timothy Newell, Brown's Mills, N. J., 1 N Ed
Phillips, Walter Jenkins, Scranton, Pa., 53 Univ. Pl.
Pomeroy, William McLellan, Chambersburg, Pa., 34 '79 H
Price, James Sanford, Erie, Pa., 31 N Ed
Pullen, Ernest Clifford, Robbinsville, N. J., 16 Witherspoon St.
Pyle, David Hunter McAlpin, New York City, 9 L P
Pyne, Moses Taylor, Jr., New York City, 10 L P
Ream, Louis Marshall, New York City, 2 Nassau St.
Richard, Walter Littauer, New York City, 19 Univ. Pl.
Robbins, Clayton Augustus, Lakewood, N. J., 18 N Ed
Rose, Alfred Leopold, New York City, 31 Univ. Pl.
Rouse, Louis Joseph, Blue Anchor, N. J., 29 Alexander St.
Scott, John Fulton Reynolds, Philadelphia, Pa., 47 Univ. Pl.

Serfas, Theodore Adolphus,	Effort, Pa.,	18 S M R
Sewall, Campbell,	Houston, Tex.,	53 Univ. Pl.
Simons, Leslie Hill,	Ariel, Pa.,	164 Nassau St.
Simpson, Harold Mabee,	Newton, N. J.,	11 Univ. Pl.
Smith, Courtland Ninde,	Great Barrington, Mass.,	3 S M R
Smith, Lloyd Weir,	Pittsburg, Pa.,	8 Dickinson St.
Smith, Thomas Leaming,	Philadelphia, Pa.,	36 Wiggins St.
Solinger, Walter Bernard,	Brooklyn, N. Y.,	25 N Ed
Spencer, Alanson Hosmer,	Gloversville, N. Y.,	2 Nassau St.
Spencer, Charles Du Puy,	Erie, Pa.,	47 Univ. Pl.
Stiles, Howard Rufus,	Flushing, N. Y.,	21 N Ed
Stockton, Richard,	Princeton, N. J.,	Morven
Stoever, Edward Royal,	Philadelphia, Pa.,	31 Nassau St.
Stuart, Allison Ellsworth,	Lafayette, Ind.,	2 Nassau St.
Stuckey, Howard Stanley,	Buffalo, N. Y.,	33 S Ed
Swartz, Aaron Snyder, Jr.,	Norristown, Pa.,	47 Univ. Pl.
Taliaferro, Thomas Sinclair,	Houston, Tex.,	53 Univ. Pl.
Taylor, Howard Fisher,	Brownsville, Pa.,	22 M D
Taylor, Porter Morell,	McKeesport, Pa.,	8 Dickinson St.
Thompson, Walter Neal,	West Pittston, Pa.,	164 Nassau St.
van Dyke, Henry Jackson, 3d,	Princeton, N. J.,	39 Van Deventer Av.
Van Sickle, Walter Delavan,	New Brunswick, N. J.,	15 Bank St.
Vernon, Charles Wills, Jr.,	Morristown, N. J.,	9 W B
Voigt, Ernest Rudolf,	New York City,	63 U
Warner, Daniel List,	Baltimore, Md.,	47 Univ. Pl.
Watkins, James Morgan,	Chattanooga, Tenn.,	31 Univ. Pl.
Weelans, Charles Henry,	Trenton, N. J.,	11 S Ed
Westervelt, Walter W.,	Beemerville, N. J.,	32 Mercer St.
Wheeler, Nelson Platt, Jr.,	Endeavor, Pa.,	53 Univ. Pl.
Willard, Donald Campbell,	New Bloomfield, Pa.,	21 Chambers St.
Williams, Charles,	Nashua, N. H.,	14 Ed. Pl.
Williams, George Walton, Jr.,	Charleston, S. C.,	31 Univ. Pl.
Winans, James Macdonald,	Princeton, N. J.,	Morven St.
Wolferth, Charles Christian,	Clarksboro, N. J.,	20 N Ed
Wood, Isaac Trumbull,	Princeton, N. J.,	20 Bayard Lane
Wood, Percy Clifford,	Pittsburg, Pa.,	13 W W

ACADEMIC FRESHMEN, ... 146

Academic Specials

Alden, John Percy Coleman,	Cornwall, Pa.,	48 Mercer St.
Banning, Ephraim, Jr.,	Chicago, Ill.,	32 Van Deventer Av.
Barton, Lyman Guy, Jr.,	Willsboro, N. Y.,	9 Park St.
Bishop, Olin Sprague,	Adams, N. Y.,	17 B
Blatchford, William Wallack, Jr.,	Atlantic City, N. J.,	37 Wiggins St.
Burkhart, John Paul,	Bernville, Pa.,	5 N Ed
Eells, John Dwight,	Walton, N. Y.,	8 M D
Fowler, Herbert Eugene,	Mansfield, Pa.,	37 N Ed
Holzhauer, Charles William,		Newark, N. J.
Hyde, James Lewers,	Academia, Pa.,	60 B S
Kline, Hugh Earl,	Ridgway, Pa.,	D, U
Kolb, Frederick William,	Baltimore, Md.,	Refectory, Sem.
Lyman, Charles Gleason,	East Pembroke, N. Y.,	7 S E B
Marshall, Hugh Daw, Jr.,	St. Louis, Mo.,	A, B
Morrison, Harry Steele,	New York City,	142 L
Motter, William Colhoun,	St. Joseph, Mo.,	14 E W
Righter, Walter Washington	North, Philadelphia, Pa.,	4 E M W
Scott, Charles Hodge,	Princeton, N. J.,	56 Bayard Lane
Semple, James Lithgow,	Princeton, N. J.,	1 W W
Williams, Eliot Churchill,	Evanston, Ill.,	7 N W
Williams, Robert Emmerton,	Chicago, Ill.,	19 N W

Academic Specials, ... 21

Students in the John C. Green School of Science

SCHOOL OF ELECTRICAL ENGINEERING

Second Year

Holt, Sidney Tarzewell, B. S., Princeton, 1903.	Newark, N. J.,	Tower Club
McDermott, Frank Pierce, Jr., A. B., Princeton, 1902; A.M., Princeton, 1903.	Elizabeth, N. J.,	15 N M R
Palmer, Edgar, B. S., Princeton, 1903.	New York City,	10 Nassau St.

First Year

Brokaw, Robert Wykoff, A. B., Princeton, 1904.	St. Louis, Mo.,	4 S W
Clark, William Augustus, A. B., Princeton, 1904.	Flushing, N. Y.,	2 N W
Hull, Arthur Stanley, A. B., Princeton, 1903.	Scranton, Pa.,	4 N R
Ranken, David Dean, B. S., Princeton, 1904.	St. Louis, Mo.,	1 S W
Williams, Walter Donaldson, B. S., Princeton, 1904.	Oxford, Pa.,	10 W B

Students in the Electrical School, . . . 8

School of Science Senior Class

Candidates for the B. S. or B. Litt. Degree

Ames, Alfredrick Smith,	Montclair, N. J.,	5 U P
Armstrong, Harry Howard,	Oakmont, Pa.,	112 L
Atwood, John Baird,	Allegheny, Pa.,	163 L

Baldwin, Herbert Van Vlierden,	Nyack, N. Y.,	13 E W
Belden, Augustus Cadwell,	Syracuse, N. Y.,	5 U P
Boswell, Alfred Craig,	Pittsburg, Pa.,	161 L
Brosius, Lewis Gordon,	Brookville, Pa.,	123 L
Brown, Allan Henry, Jr.,	Montclair, N. J.,	81 B
Buzby, Stockton,	Baltimore, Md.,	10 W M W
Chandlee, Evan Goldsmith, Jr.,	Philadelphia, Pa.,	10 N D
Dickinson, Sackett Moore,	Trenton, N. J.,	7 N D
Earle, David Prince,	Elizabeth, N. J.,	41 B
Eisenhart, Martin Herbert,	York, Pa.,	3 W B
Fayerweather, Charles Swinburne,	Paterson, N. J.,	7 B
†Flagg, Herbert Harbeck,	Brooklyn, N. Y.,	148 Nassau St.
Forman, William Parker,	Poughkeepsie, N. Y.,	3 S W B
Frick, Childs,	Pittsburg, Pa.,	112 L
Fuller, Clifford Justis,	Memphis, Tenn.,	76 U
Gaskins, Perse Lacy,	Starke, Fla.,	14 N W
Granger, Frederic Stearns,	Cincinnati, O.,	31 B
†Griffith, Morrison Elmo,	Conroe, Tex.,	52 B
Grimes, James Lee,	Pittsburg, Pa.,	3 S E B
Hamilton, Donald Campbell,	Pittsburg, Pa.,	23 B
Harvey, Thomas William, Jr.,	Orange, N. J.,	15 W W
Henry, Charles Parmenas,	Basking Ridge, N. J.,	6 S E B
Hoyt, Randal Edward,	St. Louis, Mo.,	44 B
Jones, Lafon,	Somerville, Ky.,	2 S W B
Keyes, Rollin Webb,	Evanston, Ill.,	8 E W
King, Alfred Faris,	New York City,	51 L
Koehler, Edward Julius,	Cincinnati, O.,	132 L
La Forge, Frederick Burr,	Bridgeport, Conn.,	12 W W
Loeb, Irwin Jacob Schwarz,	Providence, R. I.,	6 N R
Longcope, Thomas Moore, Jr.,	Lansdowne, Pa.,	7 S R
Malcolm, George Hoag,	Summit, N. J.,	5 W B
Matter, John,	Marion, Ind.,	14 E W
Mayer, Paul Hirschl,	Mount Vernon, N. Y.,	20 M D
Morrell, Percy Eugene,	Elizabeth, N. J.,	21 '79 H
Morriss, Alexander William, Jr.,	Lebanon, Ill.,	90 Nassau St.
Nevin, Ernest Delano,	Pittsburg, Pa.,	68 L
Nickerson, John, Jr.,	St. Louis, Mo.,	44 B
†Otis, Arthur Houghton,	Yonkers, N. Y.,	5 W B
Pardoe, William Dolton,	Princeton, N. J.,	Tusculum
Paull, Alfred Singleton,	Wheeling, W. Va.,	10 N D
Raymond, Henry Jarvis,	Germantown, Pa.,	3 N D

† Candidate for a degree in February, 1906.

Reimers, Raymond Denkmann,	Fort Worth, Tex.,	6 E W
Rouse, John Gouldsmith,	Baltimore, Md.,	31 B
Russell, Charles Partridge,	Kenesaw, Neb.,	62 Alexander St
St. John, Fordyce Barker,	Hackensack, N. J.,	2 U P
Sanderson, Raymond,	Indianola, Fla.,	5 M D
Sayen, William Henry, Jr.,	Wayne, Pa.,	64 B
Schmitz, Walter Lipphardt,	St. Louis, Mo.,	12 W W
Scribner, Charles Edwin,	Boonton, N. J.,	61 L
Shirk, John Hostetter,	Oregon, Pa.,	74 B
Swan, Henry,	Biloxi, Miss.,	53 L
Tittmann, Charles Trowbridge,	Washington, D. C.,	14 N W
Tobey, Earle Deyo,	Poughkeepsie, N. Y.,	13 B
Tuttle, Frank Harrison,	Summit, N. J.,	168 Nassau St.
Tweedy, Lawrence Leslie,	Knickerbocker, Tex.,	53 L
Voorhees, James Dayton,	Camden, N. J.,	144 L
Walcott, Chester Howe,	Evanston, Ill.,	64 B
Walton, Rudolph Lawrence,	East Orange, N. J.,	7 B
†Wills, Ernest Chalkley,	Greenwich, Conn.,	12 M D
Wood, Harry Brookfield,	Bradford, Pa.,	8 S W

CANDIDATES FOR THE C. E. DEGREE

Baker, Charles,	Columbus, O.,	8 S E B
Barnes, John Sheldon,	Rockford, Ill.,	11 W B
Brown, George Martin, Jr.,	Monmouth Junction, N. J.,	354 Nassau St.
Bunting, Curtis Daniel,	Hamburg, N. Y.,	22 B
Crosby, William Spencer, Jr.,	Chicago, Ill.,	5 W W
Doellner, Albert Harry, Jr.,	St. Louis, Mo.,	5 S R
Downer, Jay,	Denver, Colo.,	81 B
English, Charles Clement,	Beverly, N. J.,	7 S R
Forbes, Gordon,	Morristown, N. J.,	164 L
Gaines, Albert Belding, Jr.,	Englewood, N. J.,	16 L
Greenwood, Joseph Rudd,	New York City,	2 E B
Howard, Robert Coffin,	Millbrook, N. Y.,	9 S D
Kafer, Joseph Dana,	Lawrenceville, N. J.,	1 B
Karow, Edward, Jr.,	Savannah, Ga.,	2 W B
Kessler, Harry Clayton, Jr.,	New York City,	5 W M W
Kimball, Walter Denniston,	Philadelphia, Pa.,	51 B
Mason, Walter Leonard,	Brooklyn, N. Y.,	72 B
Moore, Hubert,	Sewickley, Pa.,	12 E B
Payne, Edward Duggan,	Athens, Pa.,	10 W W

† Candidate for a degree in February, 1906.

Perry, Albert Curtis,	Worcester, Mass.,	1 B
Ridgway, Charles Dallas, Jr.,	Jersey City, N. J.,	7 B
Riley, Arthur Wesley,	Atlantic City, N. J.,	17 Madison St.
Sharp, Thurlow Rawson,	Hornellsville, N. Y.,	2 E B
Simpson, Charles Randolph,	Huntingdon, Pa.,	123 L
Spencer, Frank Norton,	Toledo, O.,	11 N D
Stevenson, Thomas Kennedy,	Schenectady, N.Y.,	20 Library Pl.
Stevenson, Walker Woods,	Roselle, N. J.,	34 B
Townsend, Edward Davis,	Washington, D. C.,	2 M D
Townsend, Thomas Gerry, Jr.,	Washington, D. C.,	2 M D
Upton, Curtis Perry,	Orange, N. J.,	2 U P
Wallower, Edgar Zollinger,	Harrisburg, Pa.,	2 W B
Wilson, Ralph Baker,	Palatka, Fla.,	72 B

SCHOOL OF SCIENCE SENIORS, ... 95

SCHOOL OF SCIENCE JUNIOR CLASS

CANDIDATES FOR THE B. S. OR B. LITT. DEGREE

Abbott, Alfred Houghton,	Corning, N. Y.,	22 B
Ambrose, Charles Arthur,	Orange, N. J.,	3 S D
Ambrose, Harrison William,	Orange, N. J.,	3 S D
Balmer, Julius Pratt,	Edgewater, Ill.,	44 U
Bard, Ralph Austin,	Chicago, Ill.,	44 '79 H
Bokum, Norris Harkness,	Chicago, Ill.,	44 '79 H
Bradley, John Alfred,	Philadelphia, Pa.,	2 S E B
Brooke, Francis Mark,	Haverford, Pa.,	16 M D
Brown, Edmund Leighton,	New York City,	4 L P
Byram, Herbert Fulton,	Pittsburg, Pa.,	4 E M W
Carothers, Samuel,	Pittsburg, Pa.,	43 L
Cline, Elmer Louis,	Indianapolis, Ind.,	33 L
Cloud, Chester Marts,	Baltimore, Md.,	42 B
Cochran, George Irwin,	Sewickley, Pa.,	68 L
Conde, Louis Henri,	Indianapolis, Ind.,	33 L
Cross, James Frederick, Jr.,	East Orange, N. J.,	171 L
Cutler, Willard Walker, Jr.,	Morristown, N. J.,	7 W W
Darlington, Henry Buckingham,	Indianapolis, Ind.,	182 L
Doane, Robert Edward,	Elmira, N. Y.,	6 W W
Drake, Raymond Wade,	Irvington, N. J.,	36 L
Eisele, John Lincoln,	Newark, N. J.,	18 U P
Eppley, Marion,	West Orange, N. J.,	7 L P

Freeman, William Coleman,	Washington, D. C.,	24 U P
Gibson, Brownlee Harper,	Pittsburg, Pa.,	6 E B
Goodeno, Jack Miller,	Newark, N. J.,	4 E M W
Goodman, Kenneth Sawyer,	Chicago, Ill.,	86 Nassau St.
Goodrich, Latimer,	Keokuk, Ia.,	8 W M W
Gray, Albert Edward Newton,	Irvington, N. J.,	4 W M W
Gray, Theodore Francis Newton,	Irvington, N. J.,	4 W M W
Greenland, Harold Beebe,	Syracuse, N. Y.,	52 L
Hale, Paul Morrow,	Duluth, Minn.,	53 '79 H
Hatch, Arthur Pierson,	Stamford, Conn.,	74 B
Hayes, Matthew Cowden,	Lewisburg, Pa.,	72 L
Hazard, Willson,	Richmond, Va.,	1 S W B
Higbie, Harrison Sayre,	Newark, N. J.,	36 L
†Hoagland, Amos Nathan,	Oxford, N. J.,	6 E B
Ill, Edgar Alexander,	Newark, N. J.,	22 '79 H
Irwin, John Rankin,	Keokuk, Ia.,	142 L
Keith, Harold Hall,	Chicago, Ill.,	24 L
Kennedy, Frank,	Hagerstown, Md.,	19 M D
Kerr, Benjamin Warfield,	Newark, N. J.,	20 E W
Laird, Douglas,	Toronto, Canada,	24 L
Letts, Fred Clayton,	Evanston, Ill.,	13 '79 H
McCallum, Duncan,	Memphis, Tenn.,	14 S D
McCreary, George Deardorff, Jr.,	Philadelphia, Pa.,	32 '79 H
McNaughton, John,	Kaukauna, Wis.,	71 L
Morris, Lewis Spencer,	New York City,	1 L P
Morton, Sterling,	Chicago, Ill.,	3 B
Munn, Orson Desaix, Jr.,	New York City,	7 L P
Orr, Arthur, Jr.,	Evanston, Ill.,	142 L
Perry, Oliver Hazard, Jr.,	Elmhurst, N. Y.,	16 M D
Presbrey, Charles Spalding,	New York City,	14 '79 H
Rafferty, Ewing Lawrence,	Pittsburg, Pa.,	82 Nassau St.
Reed, Howard Beck,	Seabright, N. J.,	38 Wiggins St.
Reppert, George Henry,	Jamestown, N. Y.,	3 S Ed
Robinson, Montgomery,	Carthage, N. Y.,	2 S E B
Rue, John Davison, Jr.,	Dutch Neck, N. J.,	21 L
†Seeton, Bruce William,	El Paso, Tex.,	8 W B
†Simmons, Halsey Melville,	Baltimore, Md.,	14 '79 H
Simons, George Steuart, Jr.,	Plainfield, N. J.,	15 B
Spelletich, Kalman,	Davenport, Ia.,	62 B
Talbott, Addison F. M.,	Kansas City, Mo.,	8 W B
Tarbell, Swift,	New York City,	1 N W
Thayer, Lee Carlton, Jr.,	Indianapolis, Ind.,	10 S D

† Candidate for a degree in February, 1907.

Updegraff, Samuel,	Pittsburg, Pa.,	8 S E B
Vanderbilt, Oliver De Gray, Jr.,	East Orange, N. J.,	8 E M W
Whitney, Warren Calvin,	Norwalk, O.,	185 L
Wiley, Silas Moore,	Chicago, Ill.,	86 Nassau St.
Wilson, Arthur Edwin,	Pittsburg, Pa.,	97 B
Zeiss, Harold,	Chicago, Ill.,	10 S D

CANDIDATES FOR THE C. E. DEGREE

Baiter, Charles William Grevel,	New York City,	32 B
Barry, Ralph Andrew,	Wabash, Ind.,	6 N W
Brasher, Philip Marston,	Steamboat Springs, Colo.,	1 N W
Brunswick, Walter,	New York City,	10 S M R
Connell, Philip Graham,	Evanston, Ill.,	153 L
De Vinne, Charles De Witt,	New York City,	66 L
Edwards, Harold Sydney,	Santa Barbara, Cal.,	80 Nassau St.
Etherington, Sandford Garland,	East Orange, N. J.,	80 Nassau St.
Gehrken, John Henry,	Brooklyn, N. Y.,	7 S D
Hardy, Elbert Clarence,	Buffalo, N. Y.,	4 S Ed
Haskell, Fred Kibbe,	Bradford, Pa.,	11 W B
Holbrook, Rossiter,	Ossining, N. Y.,	182 L
Howe, Frank Ray,	Washington, D. C.,	16 N W
Johnson, Sylvester, Jr.,	Indianapolis, Ind.,	96 B
Kellogg, Edward Washburn,	Vineland, N. J.,	9 S R
Leaming, Richard Smith,	Dennisville, N. J.,	43 L
Liggett, Thomas, Jr.,	Pittsburg, Pa.,	90 Nassau St.
Lyons, Harold Chandos Clave,	New York City,	7 S D
McCarthy, Daniel Francis,	Princeton, N. J.,	169 Nassau St.
McClure, Jay Cooke,	Wyncote, Pa.,	33 '79 H
Munn, John Randall,	East Orange, N. J.,	153 L
Nuelle, Joseph Henry,	Chicago, Ill.,	25 M D
Oakford, William Proctor Searight,	Peoria, Ill.,	1 E M W
Scott, Alexander Hodge,	Germantown, Pa.,	4 S R
Shoemaker, Linden Brown,	Little Silver, N. J.,	1 E M W
Smith, Herbert James,	Putnam, Conn.,	4 S Ed
Stagg, David Christie,	Leonia, N. J.,	9 M D
Stickney, Henry,	Baltimore, Md.,	11 S M R
Strom, Eugene Nathan,	Chicago, Ill.,	94 B
Stromberg, Carl Martin,	Saranac Lake, N. Y.,	8 E B
Thompson, Herbert Stephen,	Kingston, N. J.,	Kingston, N. J.
Turner, William Fitzhugh,	Princeton, N. J.,	31 Nassau St.
Vauclain, Jacques Leonard,	Rosemont, Pa.,	31 L
Waller, John Cadwallader,	Skaneateles, N. Y.,	8 W M W

SCHOOL OF SCIENCE JUNIORS, ... 104

School of Science Sophomore Class

Candidates for the B. S. or B. Litt. Degree

Abernethy, Grenville Goodale,	New York City,	90 Nassau St.
Alling, Frederic Augustus,	Newark, N. J.,	7 M D
Appel, Fred Gregory,	Indianapolis, Ind.,	88 Nassau St.
Armstrong, William Metcalf,	Oakmont, Pa.,	112 L
Ash, Charles Emerson,	Pittsburg, Pa.,	7 E M W
Atlee, John Cox,	Fort Madison, Ia.,	24 B
Bangs, William Dean,	Cedar Rapids, Ia.,	11 E B
Barnes, Harry Hamilton,	Syracuse, N. Y.,	10 E B
Bedinger, John Van Doren,	Anchorage, Ky.,	6 M D
Brooks, Walter Booth, Jr.,	Baltimore, Md.,	12 '79 H
Brown, James Twichell,	Williamsport, Pa.,	66 Nassau St.
Brown, Lowell Huntington,	East Orange, N. J.,	90 Nassau St.
Camp, William Hoke,	Louisville, Ky.,	9 E M W
Carson, John Renshaw,	Sewickley, Pa.,	Hill
Carson, Robb,	Sewickley, Pa.,	Hill
Carton, Laurence Roberts,	Chicago, Ill.,	2 W M W
Case, Dudley Herrick,	Jersey City, N. J.,	3 M D
Chamberlain, Fidelio Gillette,	San Antonio, Tex.,	90 Nassau St.
Chapman, Richard Bayly,	Baltimore, Md.,	98 B
Chew, Philip Frederick,	South Orange, N. J.,	15 U P
Childs, Arthur Eliot,	Englewood, N. J.,	2 L P
Cochran, Marshall Gilbert,	Pittsburg, Pa.,	6 S W B
Condit, Frank Harvey,	West Orange, N. J.,	5 S W
Cooder, Clement Moffat,	Rahway, N. J.,	3 E B
Cooke, Frederick William, Jr.,	Paterson, N. J.,	10 U P
Coon, Alfred Wallace,	New York City,	17 U
Corkran, Benjamin Warren,	Baltimore, Md.,	Hill
Coyle, Ray Frederick,	Denver, Colo.,	H, U
Cranmer, George Ernest,	Denver, Colo.,	2 W M W
Crary, Delos,	Hancock, N. Y.,	23 L
Culver, Byron Wadsworth,	Eau Claire, Wis.,	66 Nassau St.
Cunningham, Frederick William,	Point Pleasant, N. J.,	12 S W
Davis, David Melvin,	Buffalo, N. Y.,	54 L
Davis, Jefferson Hayes,	Colorado Springs, Colo.,	47 U
Euwer, Walter Courtney,	Youngstown, O.,	266 Nassau St.
Fairlie, Chester Wilson,	Newark, N. J.,	124 L
Fischer, Milton Albert,	East Orange, N. J.,	Hill

George, Ralph Moore,	Bradford, Pa.,	14 S W
Goldsborough, Lilburn Trigg,	Baltimore, Md.,	2 E W
Green, George Farrar,	Danbury, Conn.,	66 Nassau St.
Halsey, Edward Chauncey, Jr.,	East Orange, N. J.	16 W W
Hinrichsen, Carl Fred,	Newark, N. J.,	9 W B
Horn, John Howard,	Stonington, Conn.,	10 U P
Huyler, Coulter Dunham,	New York City,	3 W M W
James, Newton,	New Rochelle, N. Y.,	66 Nassau St.
Jennings, Morley Wilmot,	Philadelphia, Pa.,	82 B
Johnson, Reeves Kemp,	Rosemont, Pa.,	17 U
Jones, Leonard Chester,	New York City,	15 L P
Keeney, George Alonzo, Jr.,	Elizabeth, N. J.,	16 B
Keith, Roy,	Chicago, Ill.,	10 S R
Kidney, Richard Sluyter,	Auburn, N. Y.,	9 N W
Larzelere, Charles Townley,	Norristown, Pa.,	88 Nassau St.
Levis, Chester Coursen,	London, England,	80 Nassau St.
McAlpin, Allan Heyward,	New York City,	35 U
McAusland, Randolph Hunter,	Jersey City, N. J.,	11 E B
McCrary, Irvin James,	Denver, Colo.,	H, U
McCutcheon, Norman Lockwood,	Greenwich, Conn.,	42 B
Manness, Stanley,	Scranton, Pa.,	7 E M W
Marsh, Henry Lawrence,	Manistee, Mich.,	63 '79 H
Menefee, Arthur Burley,	Louisville, Ky.,	1 W M W
Miller, Charles Francis,	Germantown, Pa.,	1 S E B
Morgan, Stewart McKee,	Pittsburg, Pa.,	136 Nassau St.
Newcomb, Leslie Wardwell,	Mt. Desert Ferry, Me.,	7 S D
Osborn, Arthur Herbert,	New York City,	90 Nassau St.
Otheman, Roswell Chamberlain,	New York City,	66 Nassau St.
Otis, Norton Prentiss, Jr.,	Yonkers, N. Y.,	66 Nassau St.
Owen, Ralph Woodland,	Eau Claire, Wis.,	66 Nassau St.
Parkin, Harold Clarke,	Philadelphia, Pa.,	K, U
Peckham, Paul Tyler,	New York City,	4 W W
Penrose, Charles,	Philadelphia, Pa.,	63 '79 H
Perley, Allen Putnam, Jr.,	Williamsport, Pa.,	82 Nassau St.
Pollock, Roland Dudley,	Philadelphia, Pa.,	54 L
Popple, Frank Worthen, Jr.,	Grand Valley, Colo.,	36 Wiggins St.
Porterfield, Arthur Boyd,	Oil City, Pa.,	154 L
Read, Robert James,	Huntingdon, Pa.,	3 E W
Rheinstein, Sidney,	New York City,	82 B
Robert, Daniel Rutgers,	Brooklyn, N. Y.,	154 L
Rodgers, William White,	Springfield, O.,	42 '79 H
Rust, John Franklin,	Cleveland, O.,	Hill

Schwarzschild, Monroe Myron,	New York City,	Hill
Sharp, High,	Salt Lake City, Utah,	134 L
Smith, Clarence Carroll,	Vicksburg, Miss.,	266 Nassau St.
Taliaferro, Charles Champ, Jr.,	Nasons, Va.,	10 E B
Tenney, Harral S.,	Asbury Park, N. J.,	47 U
Thomas, John Gregg,	Baltimore, Md.,	12 '79 H
Von Weise, Louis Bradford,	Greenville, Ill.,	6 S R
Ward, William Spencer,	Newark, N. J.,	9 E M W
Warren, Guy Scott,	Louisville, Ky.,	1 W M W
Washburn, Arthur Prescott,	Hackensack, N. J.,	Hill
Watt, William,	Norristown, Pa.,	88 Nassau St.
Weems, Fontaine Carrington,	Houston, Tex.,	49 U
Wells, Lloyd Parker,	St. Louis, Mo.,	66 Nassau St.
Wisner, Eugene Dutihl,	Summit, N. J.,	3 E W
Wood, Irving Emory,	Pittsburg, Pa.,	13 W W
Zahniser, Afton Jay,	Pittsburg, Pa.,	6 S W B

CANDIDATES FOR THE C. E. DEGREE

Alexander, Hubert Victor,	Louisville, Ky.,	10 S W
Bennett, Harry,	Princeton, N. J.,	19 Madison St.
Bennett, Judson Harvey,	Cape May City, N. J.,	3 E B
Bradley, Wilson,	Duluth, Minn.,	53 '79 H
Brooks, Winfred Mudge,	East Orange, N. J.,	266 Nassau St.
Bruen, Clarence Edward,	East Orange, N. J.,	Hill
Buswell, Guy James,	Charleston, N. H.,	18 W W
Clark, Harry Newton,	Ellenville, N. Y.,	9 S W
Cook, Richard Bailey,	Pottstown, Pa.,	183 L
Craig, Allen,	Washington, D. C.,	37 Wiggins St.
Creighton, Joseph Hasson,	Altoona, Pa.,	E, U
Cudell, Carl Frederick,	Chicago, Ill.,	94 B
Dain, Nathaniel,	Peekskill, N. Y.,	23 M D
Daub, Walter Henry,	Pottstown, Pa.,	39 U
Davis, Frank Faville,	New York City,	39 U
Davis, Stephen Roger,	Eau Claire, Wis.,	23 M D
Dusenbury, Edgar Truesdell,	Portville, N. Y.,	266 Nassau St.
Dutcher, Ogden,	New York City,	266 Nassau St.
Eginton, John Watson, Jr.,	New York City,	3 W M W
Fager, Paul,	Harrisburg, Pa.,	5 E B
Felgenhauer, Frank John,	Brooklyn, N. Y.,	5 E B
Freeman, John Edgar,	New York City,	92 B
Geyer, Berkeley Willard,	Washington, D. C.,	Hill
Gibbens, Chalmers Blair,	Parkersburg, W. Va.,	184 L

Gittings, James Charles, Jr.,	Finksburg, Md.,	51 '79 H
Gordon, William Stuart, Jr.,	New York City,	143 L
Hampson, Arthur Chester,	Newark, N. J.,	4 W B
Harris, Frederick Morgan,	Toronto, Canada,	266 Nassau St.
Henry, Alexander, Jr.,	Philadelphia, Pa.,	184 L
Hulsizer, William Hill,	Flemington, N. J.,	5 E W
Kerper, John Frederic, Jr.,	Harrisburg, Pa.,	M, U
Kouwenhoven, Cornelius B.,	Brooklyn, N. Y.,	88 Nassau St.
Leitch, Robert Ingram,	Evanston, Ill.,	16 U
Look, Hosea Stetson,	Cottage City, Mass.,	62 L
McCormick, Fred Culver,	Williamsport, Pa.,	9 W M W
McCracken, Frederic Beekman,	Newark, N. J.,	4 W B
McIlvain, Walter Biddle,	East Downingtown, Pa.,	15 U P
McKee, James Dalzell,	Allegheny, Pa.,	266 Nassau St.
McMillan, Francis Conover,	Princeton, N. J.,	40 Bayard Lane
Mahany, David,	New York City,	16 Van Deventer Av.
Mathews, Edward Gilbert,	Brooklyn, N. Y.,	2 U
Nash, Duane Howard, Jr.,	Millington, N. J.,	162 Nassau St.
Osborne, Lemuel,	East Orange, N. J.,	1 S W B
Parke, Nathan Grier, 2d,	Scranton, Pa.,	5 L P
Randolph, George Mortimer Fitz,	Freehold, N. J.,	3 E M W
Rees, Bird Le Grand,	Elmira, N. Y.,	Hill
Rulon-Miller, Sumner,	Haverford, Pa.,	39 U
Schaff, Schuyler Renwick,	Flushing, N. Y.,	3 E M W
Schoonmaker, William James,	Plainfield, N. J.,	G, U
Scott, Robert Frederick,	Indianapolis, Ind.,	88 Nassau St.
Stratton, Benjamin Franklin,	Trenton, N. J.,	20 A S
Whipple, Lucius Roy,	Duluth, Minn.,	9 W M W
Whitlock, Louis Ivey,	Elizabeth, N. J.,	Hill
Willock, George Johnston,	Allegheny, Pa.,	266 Nassau St.

SCHOOL OF SCIENCE SOPHOMORES, ... 149

SCHOOL OF SCIENCE FRESHMAN CLASS

CANDIDATES FOR THE B. S. OR B. LITT. DEGREE

Adams, William Thomas, Jr.,	Corinth, Miss.,	45 Univ. Pl.
Alexandre, Jerome,	New York City,	15 Univ. Pl.
Allen, Montague,	Park City, Utah,	79 U
Atlee, Samuel, 2d,	Fort Madison, Ia.,	266 Nassau St.
Badeau, Howard Raymond,	Summit, N. J.,	33 Ed. Pl.

Baker, Robert Quincy,	Coshocton, O.,	23 Madison Av.
Bane, William Mathews,	Denver, Colo.,	60 Univ. Pl.
Barler, Harold Augustus,	Chicago, Ill.,	15 Dickinson St.
Bartberger, Alfred Erwin,	Pittsburg, Pa.,	8 Dickinson St.
Belden, James Jerome, 2d,	Syracuse N. Y.,	35 U
Belden, Perry,	Syracuse, N. Y.,	23 U P
Bergland, William Scott,	Baltimore, Md.,	15 Univ. Pl.
Bockoven, Francis Harold,	Basking Ridge, N. J.,	3 W W
Broesel, Herman, Jr.,	New York City,	15 Univ. Pl.
Brown, Garvin Morris,	Indianapolis, Ind.,	47 Univ. Pl.
Bryan, Sylvester Griswold,	Bound Brook, N. J.,	29 Van Deventer Av.
Burk, Charles August David,	Philadelphia, Pa.,	31 Univ. Pl.
Byles, Ralph Perry,	Bradford, Pa.,	12 S W
Carver, Conrad Quinby, Jr.,	Sharon, Pa.,	138 Nassau St.
Champlin, Charles Davenport,	Hammondsport, N. Y.,	15 Dickinson St.
Chandlee, Edward Earl,	Philadelphia, Pa.,	47 U
Clark, Walton, Jr.,	Philadelphia, Pa.,	11 Park Pl.
Clothier, Robert Clarkson,	Ardmore, Pa.,	15 Univ. Pl.
Colvin, William Henry,	Pittsburg, Pa.,	15 Dickinson St.
Connors, William Bernard,	Stoneham, Mass.,	21 Chambers St.
Cook, Frederick Russell,	Arlington, Mass.,	18 W W
Corbin, Horace Kellogg,	Elizabeth, N. J.,	39 Univ. Pl.
Cowan, James Dickinson,	Canastota, N. Y.,	33 Van Deventer Av.
Crawford, Sidney Lawrence,	Merion, Pa.,	14 B
Daniel, Zaccheus,	Hawthorn, Pa.,	7 S Ed
Davis, Owen Llewellyn,	Denver, Colo.,	15 Univ. Pl.
Dickson, John Robinson,	Waco, Tex.,	34 Van Deventer Av.
Dorsey, Edgar Albert,	Dickeyville, Md.,	Hill
Drayton, Emlen Meigs,	Philadelphia, Pa.,	15 Univ. Pl.
Dunning, Herbert Day,	Indianapolis, Ind.,	88 Nassau St.
Ebert, St. Gem,	St. Louis, Mo.,	47 Univ. Pl.
Failey, Robert Burnett,	Indianapolis, Ind.,	47 Univ. Pl.
Fender, Robert Chesley,	Chester, Pa.,	33 Ed. Pl.
Flory, Grant Glenwood,	Dayton, O.,	27 U
Fluhart, Theodore La Mar,	Dayton, O.,	138 Nassau St.
Forgan, Robert Russell,	Evanston, Ill.,	42 U
Forsyth, Robert Wright, Jr.,	Camden, N. J.,	36 Wiggins St.
Gallaher, Samuel Miller,	Charleston, W. Va.,	8 S M R
George, Louis Brainard,	Lynn, Mass.,	15 Univ. Pl.
Gilchrist, Joseph Karl,	Lebanon, O.,	5 W B

Grandin, Guy Merkle,	Tidioute, Pa.,	31 Univ. Pl.
Gregory, Frank Albert,	Indianapolis, Ind.,	47 Univ. Pl.
Halliday, Earnest Raymond,	Columbus, O.,	31 Univ. Pl.
Hamill, Chalmers Martin,	Marshall, Ill.,	1 N M R
Harvey, Spencer Green,	Orange, N. J.,	22 Ed. Pl.
Haughey, John Duncan,	North Plainfield, N. J.,	53 Univ. Pl.
Henry, George Hughes,	Erie, Pa.,	34 Van Deventer Av.
Herron, Joseph Alexander, Jr.,	Monongahela, Pa.,	138 Nassau St.
Herron, William Andrew, Jr.,	Peoria, Ill.,	19 Univ. Pl.
Hewitt, Henry,	Tacoma, Wash.,	23 Madison St.
Heyniger, William Sinclair,	Corning, N. Y.,	15 Dickinson St.
Holden, Clarence Lewis,	Bennington, Vt.,	2 Nassau St.
Holland, Francis Raymond,	Pittsburg, Pa.,	19 Univ. Pl.
Houston, William Seward,	Pittsburg, Pa.,	34 Van Deventer Av.
Hulbirt, Edwin Ray,	Lovelton, Pa.,	14 N M R
Hutchison, Fred Rudy,	Alexandria, Pa.,	29 Alexander St.
Jefferson, Archie Church,	St. Paul, Minn.,	32 Wiggins St.
*Johns, Paul Tener,	Pittsburg, Pa.,	34 Van Deventer Av.
Johnson, William Kempton,	Hackensack, N. J.,	41 Univ. Pl.
Jones, Howard Chapin,	Norwich, N. Y.,	16 Chambers St.
Jones, Raymond Edgar,	Belvidere, N. J.,	Refectory, Sem.
Kain, William Frederick,	Dallas, Tex.,	53 Univ. Pl.
Kase, Harry Winfield,	Newark, N. J.,	31 Univ. Pl.
Kelly, John Hedges,	Sioux City, Ia.,	O, U
Kilgore, Richard,	Minneapolis, Minn.,	32 Wiggins St.
Kuttroff, Percy,	New York City,	46 Van Deventer Av.
Laidlaw, Elliot Carter Rutherford,	New York City,	98 B
Lambert, Gerard Barnes,	St. Louis, Mo.,	39 Univ. Pl.
Latimer, Empie,	Wilmington, N. C.,	44 Van Deventer Av.
Latimer, Herbert Russell,	Wilmington, N. C.	44 Van Deventer Av.
Leake, Frederic,	New York City,	19 Univ. Pl.
Le Fevre, Coey Alfred,	Dayton, O.,	34 Van Deventer Av.
Lexow, Morton,	South Nyack, N. Y.,	3 U
Lichty, Burr George,	Waterloo, Ia.,	6 B
Looms, George, Jr.,	Louisville, Ky.,	68 U
Luke, Charles Wilson,	New York City,	19 Univ. Pl.
McCulloch, Montgomery Forster,	Louisville, Ky.,	36 S Ed
McDermott, William Combs,	Freehold, N. J.,	15 N M R
McKaig, Edgar Stanley,	Philadelphia, Pa.,	18 E W

*Died Jan. 9, 1905.

Madden, Joel Davis, Jr., Ossining, N. Y., 134 L
Markley, Lawrence, Chicago, Ill., 138 Nassau St.
Marsching, Robert Lionel, New York City, N, U
Martin, Alexander Tertius, Philadelphia, Pa., 11 Park Pl.
Milligan, James Carothers, Swissvale, Pa., 138 Nassau St.
Moon, Earl Joseph, St. Louis, Mo., 138 Nassau St.
Mount, Raymond Inslee, East Orange, N. J., 138 Nassau St.
Neff, William Rowell, Chicago, Ill., 15 Dickinson St.
Nichols, Corwin Clinton, Wilmington, O., 11 Dickinson St.
Ong, Edwin Mifflin, Pittsburg, Pa., 33 Ed. Pl.
Orrick, Johnson, Baltimore, Md., 15 Univ. Pl.
Osborne, Ralph Dodd, West Orange, N. J., 19 Univ. Pl.
Phillips, James Francais Armstrong, Trenton, N. J., 29 Van Deventer Av.
Prizer, William Mann, Philadelphia, Pa., 33 Ed. Pl.
Ralli, Constantine Pandia, New York City, 33 U
Ritter, Frederick William, Jr., Greenwich, Conn., 19 Univ. Pl.
Robinson, Frank Clement, Clarinda, Ia., 23 William St.
Runyon, Ralph Charles, New York City, 31 Univ. Pl.
Rupert, William Earle, Pottstown, Pa., 18 Van Deventer Av.
Russel, Raymond, Detroit, Mich., Hill
Schmuck, Allen John Carl, Lawrence, N. Y., 31 S Ed
Scott, Andrew Horace, Little Rock, Ark., 15 Dickinson St.
Shafer, Dallas Armstrong, New York City, 173 Nassau St.
Shumway, Edward De Witt, Chicago, Ill., 47 Univ. Pl.
Smith, Chandler Price, Baltimore, Md., 34 Bank St.
Smith, George Doane, Newark, N. J., 54 '79 H
Southworth, Frank Palmer, Wakefield, Mass., 19 Madison St.
Spadone, Amédée, 2d, New York City, 39 Van Deventer Av.
Stanard, Edwin, St. Louis, Mo., 15 Univ. Pl.
Studer, Augustus Carl, Jr., Montclair, N. J., 34 Van Deventer Av.
Talbot, Benson Alvin, Chicago, Ill., 47 Univ. Pl.
Taylor, Earle Humphrey, Springfield, Mass., 172 Nassau St.
Taylor, Henry Genêt, Jr., Camden, N. J., 46 Van Deventer Av.
Taylor, Richard Cooper, Camden, N. J., 46 Van Deventer Av.
Thibaut, Richard Edward, Jr., New York City, 53 Univ. Pl.
Thompson, Laurance Mills, Montclair, N. J., 39 Univ. Pl.
Tilden, Herbert Marmaduke, Philadelphia, Pa., 33 Ed. Pl.
Toland, Edward Dale, Jr., Wynnewood, Pa., 15 Univ. Pl.
Vanderhoef, George Wyckoff, Jr., New York City, 47 Univ. Pl.
van der Voort, Joseph Nelson, Dunkirk, N. Y., 15 Dickinson St.

Van Wagenen, John Bathgate, Newark, N. J., 22 Van Deventer Av.
Vezin, Charles, Jr., Yonkers, N. Y., 31 Univ. Pl.
Wadleigh, John Ransom, Haverhill, Mass., 32 Wiggins St.
Wallace, Robert Wisdom, Paducah, Ky., 33 Van Deventer Av.
West, William Tantum, Camden, N. J., 36 Wiggins St.
Whittemore, Theodore Browning, Yonkers, N. Y., 33 Ed. Pl.
Wilmerding, Louis Earle, Morristown, N. J., 14 Van Deventer Av.
Winter, Frederick Marmaduke, Orange, N. J., 19 Univ. Pl.
Wister, Lewis Caspar, Philadelphia, Pa., 31 Nassau St.
Woodruff, John Edward, Elizabeth, N. J., 41 '79 H
Wooldridge, Charles Flernoy Johnson, Louisville, Ky., 2 S W B

CANDIDATES FOR THE C. E. DEGREE

Bentley, Daniel Brown, Newton, N. J., 45 Univ. Pl.
Bishop, John V., Columbus, N. J., 31 Univ. Pl.
Bissell, George, Cleveland, O., 15 Dickinson St.
Bokum, Richard Drummond, Jr., Chicago, Ill., 42 U
Boyd, Joseph Fulton, Jr., Chambersburg, Pa., 34 '79 H
Brokaw, De Witt Pierce, Plainfield, N. J., G, U
Cappeau, Joseph Philip, Jr., Pittsburg, Pa., 33 Ed. Pl.
Case, Egbert De Forest, Jersey City, N. J., 11 Univ. Pl.
Clark, David Hatfield, New York City, 31 Univ. Pl.
Clark, Maurice Butler, Cleveland, O., 1 Van Deventer Av.
Comstock, Walter Phillips, Chicago, Ill., 15 N Ed
Cornwell, George Gilbert, Washington, D. C., 148 Nassau St.
Crane, Theodore, Pelham Manor, N. Y., 31 Univ. Pl.
Dale, Le Ray Eldridge, Syracuse, N. Y., 14 S Ed
Davidson, William Johnston, Connellsville, Pa., 33 Ed. Pl.
Dolph, Stanley Edward, Scranton, Pa., 47 Univ. Pl.
Duff, Malcolm Frederick, Brooklyn, N. Y., 29 Van Deventer Av.
Elder, Robert Jarrett, Dayton, O., 138 Nassau St.
Fell, Frank Edward, Trenton, N. J., 2 S Ed
Fish, Edward Charles, Philadelphia, Pa., 13 S M R
Foley, Frank Thomas, St. Paul, Minn., 34 Van Deventer Av.
Frost, Robinson Victor, Watkins, N. Y., 162 Nassau St.
Galey, Thomas Mellon, Pittsburg, Pa., 11 Univ. Pl.
Gensler, Donald Eugene, Yonkers, N. Y., 2 Nassau St.
Goppoldt, Paul Rudoph, Brooklyn, N. Y., 36 N Ed
Gray, George Augustus, Malone, N. Y., 2 S W
Guillaudeu, Dudley, New York City, 15 Univ. Pl.

Hallimond, William John,	New York City,	148 Nassau St.
Haughey, Lawrence Gilman,	North Plainfield, N. J.,	53 Univ. Pl.
Havron, John, Jr.,	Passaic, N. J.,	53 Univ. Pl.
Hazard, Erskine,	Richmond, Va.,	15 Univ. Pl.
Heim, Edwin Daniel,	Schuylkill Haven, Pa.,	13 N D
Holmes, Harold,	Maryville, Tenn.,	9 W M W
Horton, Walter Clark,	Peoria, Ill.,	2 Nassau St.
Hosmer, Warren Palmer,	Youngstown, O.,	2 Nassau St.
Huston, James Alvah, Jr.,	Sewickley, Pa.,	2 Nassau St.
King, Edward Brush,	New York City,	90 Nassau St.
Lautz, Martin William,	Buffalo, N. Y.,	33 S Ed
Lingle, Roy Petran,	Philadelphia, Pa.,	4 E B
McCormick, James Bernard,	Boston, Mass.,	13 N D
March, William Allen,	Bridgeport, Pa.,	53 Univ. Pl.
Marlin, Ralph Daniels,	Pittsburg, Pa.,	33 Ed. Pl.
Möller, William George,	New York City,	16 Van Deventer Av.
Munoz, Jorge,	Chihuahua, Mex.,	11 Dickinson St.
Peters, Ralph, Jr.,	Columbus, O.,	39 Van Deventer Av.
Phinny, Harry Brougham, Jr.,	New York City,	36 Wiggins St.
Price, Charles Denniston,	Oakmont, Pa.,	15 Chambers St.
Price, John Hosie,	Scranton, Pa.,	11 S E B
Read, Charles Newman,	Pawtucket, R. I.,	32 U P
Reed, Thomas Baird,	Philadelphia, Pa.,	16 Chambers St.
Reiter, Benjamin Franklin,	Philadelphia, Pa.,	35 William St.
Reynolds, Maxwell Kennedy,	Marquette, Mich.,	47 Univ. Pl.
Rosenfeld, Edward Arthur,	New York City,	90 Nassau St.
Royce, Albert Alpheus,	Rutland, Vt.,	19 Madison St.
Samuel, Sanford,	New York City,	45 Univ. Pl.
Scully, Rees Townsend,	Pittsburg, Pa.,	32 U P
Springer, Wilbur Clark,	Salem, N. J.,	11 Univ. Pl.
Stephenson, Grant Thomas,	Marinette, Wis.,	24 B
Stryker, Elmer Winfield,	Bound Brook, N. J.,	46 Van Deventer Av.
Throckmorton, Alburto Martin,	Birmingham, Ala.,	6 B
Treadwell, Harry Gray,	New York City,	15 Dickinson St.
Trimble, Robert, Jr.,	Glenosborne, Pa.,	11 Dickinson St.
Turner, Arthur Hubesty,	Wilkes-Barre, Pa.,	33 Ed. Pl.
Warden, Kenneth Beard,	Saranac Lake, N. Y.,	Hill
Waters, Merrill Knight,	Princeton, N. J.,	33 U P
Whiting, Frank Brockway,	Neenah, Wis.,	172 Nassau St.
Wilson, Ralph Barker,	Pittsburg, Pa.,	77 U

SCHOOL OF SCIENCE FRESHMEN, ... 202

School of Science Specials

Abbey, Woodbury,	Brooklyn, N. Y.,	62 L
Adams, Le Baron,	Chicago, Ill.,	80 Nassau St.
Baer, Charles Darcie,	Connellsville, Pa.,	33 Ed. Pl.
Barbee, Richard Sanders,	Indianapolis, Ind.,	1 W M W
Barnes, Hal,	Nanticoke, Pa.,	1 S D
Barnett, William Heiskell,	St. Louis, Mo.,	Hill
Beggs, Joseph Dilworth,	Pittsburg, Pa.,	15 Univ. Pl.
Bradfield, Charles Earl,	Barnesville, O.,	3 S W B
Brown, George Gilbert,	Newark, N. J.,	72 L
Bushnell, Howard E.,	Hartford, Conn.,	37 Wiggins St.
Cameron, Evan Sinclair,	Baltimore, Md.,	Hill
Dallmeyer, Thomas Donelly,	Pittsburg, Pa.,	6 S R
Dodd, Andrew Woodbury, Jr.,	Salem, Mass.,	136 Nassau St.
Douglas, George Camp,	Cedar Rapids, Ia.,	17 Univ. Pl.
Doyle, Willis Arthur,	Trenton, N. J.,	Hill
Foster, Charles Wiggins,	St. Louis, Mo.,	11 Dickinson St.
Foster, Harold Elmer,	Foster, N. Y.,	30 N Ed
Francke, Frederick Rudolphe, Jr.,	Indianapolis, Ind.,	33 L
French, Richmond Smith,	Medina, O.,	6 W W
Garrett, William Livingston,	Wilkinsburg, Pa.,	9 U
Gruber, Herbert Benjamin,	New York City,	34 Van Deventer Av.
Hackett, George Dunbar,	Pittsburg, Pa.,	34 Van Deventer Av.
Harrison, George Alexander,	Pittsburg, Pa.,	3 S E B
Haywood, Marshall Earl,	Lafayette, Ind.,	12 U
Higgins, Ronald,	Missoula, Mont.,	19 Madison St.
Holliday, Robert Fleming,	Dover, Del.,	21 '79 H
Horton, Chauncey Todd,	New York City,	32 B
Hoyt, Lansing Weed,	Evanston, Ill.,	13 U
Hubbell, Stewart Brooks,	Canandaigua, N. Y.,	9 S W
Jack, Harry Matthews,	Bradford, Pa.,	9 S D
Jones, William Ashby, Jr.,	Ware Neck, Va.,	41 L
Kimball, Dorr Edwin,	Evanston, Ill.,	123 L
Kirkman, Ralph,	Brooklyn, N. Y.,	8 W W
Kline, Webster Harnish,	Dayton, O.,	27 Univ. Pl.
Kohler, Herbert Ross,	Louisville, Ky.,	9 E M W
Leas, Donald Stewart,	Philadelphia, Pa.,	15 Univ. Pl.
Luckenbach, John Lewis,	Brooklyn, N. Y.,	66 L
McClay, Samuel Kennedy,	Philadelphia, Pa.,	32 B

McMeen, Albert Ralph,	Mifflin, Pa.,	O, U
McMillan, Alexander,	Princeton, N. J.,	40 Bayard Lane
Mahn, Bertram Raymond,	Ambler, Pa.,	18 E W
Merrill, Herbert Hector,	Denver, Colo.,	29 Van Deventer Av.
Mulry, George Wegman,	Jersey City, N. J.,	54 B
Murray, Leslie Ford,	Paterson, N. J.,	6 S W
Nicholson, Arthur Donaldson,	Pittsburg, Pa.,	25 Bank St.
Oberndorf, Paul Ernest,	Centralia, Kans.,	9 S W B
Paris, Rexford Lee,	Princeton, N. J.,	24 Mercer St.
Perry, John Moore,	Newtown, N. Y.,	16 M D
Phillips, John Raymond, Jr.,	Trenton, N. J.,	5 S M R
Porch, Charles Douglas,	Baltimore, Md.,	7 S W
Potter, Albert Thomas,	Philadelphia, Pa.,	42 L
Rust, John D.,	Buffalo, N. Y.,	136 Nassau St.
Schermerhorn, Robert Provost,	Trenton, N. J.,	Hill
Schussler, William Fredricks,	New York City,	23 M D
Squire, Aldis Bela,	Orange, N. J.,	Hill
Stevens, Rolland Ezra,	Joliet, Ill.,	23 William St.
Taplin, Harry Woolson,	Hanover, N. H.,	148 Nassau St.
Topping, Henry Junkins,	Pittsburg, Pa.,	82 Nassau St.
Upton, Ernest Bowditch,	Denver, Colo.,	60 Univ. Pl.
Van Dyke, Alexander Dean,	Princeton, N. J.,	108 Mercer St.
Veit, Russell Charles,	New York City,	71 L
Waldron, Walter Jameson,	Jackson, Mich.,	16 Chambers St.
Waring, Edward James, 2d,	Plainfield, N. J.,	51 B
Wells, Lemuel Stewart,	New York City,	90 Nassau St.
Westcott, William Clyde,	Union City, Pa.,	90 Nassau St.
Wood, Gerald Ball,	Bradford, Pa.,	8 S W

SCHOOL OF SCIENCE SPECIALS, ... 66

GENERAL SUMMARY

Officers of Instruction and Administration

Trustees	27
Alumni Trustees	5
Faculty and Instructors	109
University Officers and Curators	17
Fellows	13

Students

Graduate School		91
Academic Department		
Senior Class	175	
Junior Class	155	
Sophomore Class	162	
Freshman Class	146	
Special Students	21	
		659
John C. Green School of Science		
Electrical School	8	
Senior Class	95	
Junior Class	104	
Sophomore Class	149	
Freshman Class	202	
Special Students	66	
		624
Total for the year 1904–1905		1374

SUMMARY OF STUDENTS BY STATES

Pennsylvania,	342	South Carolina,	4
New Jersey,	296	Vermont,	4
New York,	252	West Virginia,	4
Illinois,	58	Florida,	3
Ohio,	46	Kansas,	3
Maryland,	43	Nebraska,	3
Missouri,	29	New Hampshire,	3
Kentucky,	28	North Carolina,	3
Massachusetts,	23	Washington,	3
Indiana,	22	Delaware,	2
Iowa,	21	Rhode Island,	2
Connecticut,	17	Alaska,	1
District of Columbia,	17	Arkansas,	1
Texas,	16	Louisiana,	1
Colorado,	15	Oklahoma,	1
Tennessee,	13	South Dakota,	1
Minnesota,	10	Wyoming,	1
Wisconsin,	10	Canada,	6
Virginia,	7	Japan,	5
Mississippi,	7	British Isles,	4
Utah,	7	China,	1
California,	6	Cuba,	1
Michigan,	6	Colombia,	1
Alabama,	5	Holland,	1
Oregon,	5	Mexico,	1
Georgia,	4	Porto Rico,	1
Maine,	4		
Montana,	4		1374

ABBREVIATIONS

A S, Alexander Hall, Seminary.
B, Blair Hall.
B S, Brown Hall, Seminary.
E B, East Entry, David Brown Hall.
E M W, East Middle Entry, Witherspoon Hall.
E W,, East Entry, Witherspoon Hall.
H S, Hodge Hall, Seminary.
L, Stafford Little Hall.
L P, Lower Pyne Building.
M D, Middle Entry, Albert B. Dod Hall.
N, Nassau Hall.
N D, North Entry, Albert B. Dod Hall.
N Ed, North Entry, Edwards Hall.
N M R, North Middle Entry, Reunion Hall.
N R, North Entry, Reunion Hall.
N W, North Entry, West College.
S D, South Entry, Albert B. Dod Hall.
S E B, South East Entry, David Brown Hall.
S Ed, South East Entry, Edwards Hall.
S M R, South Middle Entry, Reunion Hall.
S R, South Entry, Reunion Hall.
S W, South Entry, West College.
S W B, South West Entry, David Brown Hall.
U, University Hall.
U P, Upper Pyne Building.
W B, West Entry, David Brown Hall.
W M W West Middle Entry, Witherspoon Hall.
'79 H, Seventy-nine Hall.

DIRECTORY

OF OFFICERS AND STUDENTS IN ALL DEPARTMENTS OF THE UNIVERSITY

The name of every officer is printed in SMALL CAPITALS.

The names of students are followed by the designation of their several classes (g., Graduate Student; Sr., Senior; Jr., Junior; So., Sophomore; Fr., Freshman; Sp., Special Student; 2, second year; 1, first year); the name of each student is followed also by an abbreviation indicating the department to which he belongs, viz., *a.*, Academic Department; *s.*, The John C. Green School of Science; *e.*, The School of Electrical Engineering.

The abbreviations of the residences of officers and students are found on the preceding page.

Abbey, H., Jr., *Fr. a* 34 Van Deventer Av.
Abbey, W., *Sp. s* 62 L
Abbott, A. H., *Jr. s* 22 B
Abernethy, G. G., *So. s* 90 Nassau St.
Ackley, L. A., *Sr. a* 2 U P
Adams, A. L., *So. a* 18 N W
Adams, C. H., *Sr. a* 122 L
ADAMS, E. P., *Instructor*, The Bachelors
Adams, LeB., *Sp. s* 80 Nassau St.
Adams, W. T., Jr., *Fr. s* 45 Univ. Pl.
Albro, P. M., *So. a* 13 N Ed.
Alden, J. P. C., *Sp. a* 48 Mercer St.
Allen, L. C., *g* 311 H S
Allen, M., *Fr. s* 79 U
Alexander, B. L., *Sr. a* 62 Alexander St.
ALEXANDER, C. B., *Trustee*, New York City
Alexander, H. V., *So. s* 10 S W
Alexander, J. A. McM., *Jr. a* 70 U
ALEXANDER, J. W., *Trustee*, New York City
Alexandre, J., *Fr. s* 15 Univ. Pl.
Alling, F. A., *So. s* 7 M D
Allison, R. M., *g* 80 Alexander St.
Ambrose, C. A., *Jr. s* 3 S D
Ambrose, H. W., *Jr. s* 3 S D
Ames, A. S., *Sr. s* 5 U P
Anders, M. H., *So. a* 7 E B
Anders, W. H., Jr., *Jr. a* 3 S W
Anderson, G. R., *g* 208 H S
Anderson, J. B., *Jr. a* 52 '79 H
ANDERSON, R. P., *Instructor*, 32 Van Deventer Av.
Angus, S., *g* 14 A S
Appel, F. G., *So. s* 88 Nassau St.
Arms, G. W., Jr., *g* 176 Nassau St.
Armstrong, H. H., *Sr. s* 112 L
Armstrong, W., *Jr. a* 12 S W B
Armstrong, W. M., *So. s* 112 L
Ash, C. E., *So. s* 7 E M W
Atherton, T. H., Jr., *Jr. a* 84 B
Atlee, J. C., *So. s* 24 B
Atlee, S., 2d, *Fr. s* 266 Nassau St.
Atwood, J. B., *Sr. s* 163 L
Auerbach, J. H., *Sr. a* 3 L P
Austin, D. M., *g* 9 S M R
AUSTIN, H. D., *Instructor*, 11 S W B

AXSON, S., *Ass't Professor*, 10 Nassau St.
Axtell, P. D., *g* 42 A S

Bacon, W. H., Jr., *Fr. a* 34 Van Deventer Av.
Badeau, H. R., *Fr. s* 33 Ed. Pl.
Baer, C. D., *Sp. s* 33 Ed. Pl.
Baiter, C. W. G., *Jr. s* 32 B
Baker, A. T., *Sr. a* 6 S E B
Baker, C., *Sr. s* 8 S E B
Baker, E. W., *Fr. a* 46 U
Baker, R. Q., *Fr. s* 23 Madison St.
Baldwin, H. VanV., *Sr. s* 13 E W
Balmer, J. P., *Jr. s* 44 U
Bane, W. M., *Fr. s* 60 Univ. Pl.
Bangs, W. D., *So. s* 11 E B
Banning, E., Jr., *Sp. a* 32 Van Deventer Av.
Bannwart, A. W., *Jr. a* 131 L
Barbee, R. S., *Sp. s* 1 W M W
Bard, R. A., *Jr. s* 44 '79 H
Bardwell, A. E., *Sr. a* 11 M D
Barler, H. A., *Fr. s* 15 Dickinson St.
Barnes, E. D., *g* 315 H S
Barnes, H., *Sp. s* 1 S D
Barnes, H. H., *So. s* 10 E B
Barnes, J. S., *Sr. s* 11 W B
Barnes, K. B., *Jr. a* 19 S W
Barnett, W. H., *Sp. s* Hill
Barr, R. I., *Jr. a* 71 B
Barrett, H. C., *Fr. a* 181 L
Barrows, D. H., *So. a* 18 M D
Barrows, W. L., *So. a* 121 L
Barry, R. A., *Jr. s* 6 N W
Bartberger, A. E., *Fr. s* 8 Dickinson St.
Barton, L. G., Jr., *Sp. a* 9 Park Pl.
Baskerville, H. C., *So. a* 18 S Ed.
Bassett, H. J., *Sr. a* 8 S Ed.
Beal, G. H., *Sr. a* 23 William St.
Beall, L. E., Jr., *Fr. a* 2 Nassau St.
BEAM, J. N., *Instructor*, 13 L
Beaty, J. B., *Jr. a* 1 W B
Bedinger, J. VanD., *So. s* 6 M D
Beers, A. D., *So. a* 18 Van Deventer Av.
Beggs, J. D., *Sp. s* 15 Univ. Pl.
Belden, A. C., *Sr. s* 5 U P
Belden, J. J., 2d, *Fr. s* 35 U
Belden, P., *Fr. s* 23 U P
Bell, D. W., *Jr. a* 14 S W
Bell, J. A., Jr., *Fr. a* 19 Univ. Pl.
Bell, J. S., *So. a* L, U
Benjamin, J. E., *Fr. a* 148 Nassau St.
Bennett, H., *So. s* 19 Madison St.
Bennett, J. H., *So. s* 3 E B
Bentley, D. B., *Fr. s* 45 Univ. Pl.
Bentley, H., *So. a* Hill
Bergland, W. S., *Fr. s* 15 Univ. Pl.
Berry, F. A., *Jr. a* 11 N W
Berry, W. R., *Fr. a* 31 Nassau St.
Bethel, M. L., *g* 12 Jackson St.
Bigelow, J. O., *Sr. a* 73 B
Bird, S. H., *Jr. a* 13 '79 H
Bishop, J. V., *Fr. s* 31 Univ. Pl.
Bishop, O. S., *Sp. a* 17 B
BISHOP, W. W., *Ass't Librarian*, 36 Bank St.
Bissell, G., *Fr. s* 15 Dickinson St.
Bissell, L. G., *g* 8 N R
Bixby, E. W., *So. a* 88 Nassau St.
Black, A. L., Jr., *Jr. a* 8 M D
BLAIR, D. C., *Trustee*, Belvidere, N. J.
Blakeman, F. T., *Sr. a* 12 S E B
Blatchford, W. W., Jr., *Sp. a* 37 Wiggins St.
BLAU, M. F., *Ass't Professor*, 27 Bank St.
Bliss, H. F., *Jr. a* 9 M D
Bockoven, F. H., *Fr. s* 3 W W
Bodine, J. L., *Sr. a* 13 S W
Bokum, N. H., *Jr. s* 44 '79 H
Bokum, R. D., Jr., *Fr. s* 42 U
Bond, A. McK., *So. a* 11 N M R
Bond, J. J., *Sr. a* 11 N M R
Booth, S. B., *g* E, E B
Boswell, A. C., *Sr. s* 161 L
Boyd, J. F., Jr., *Fr. s* 34 '79 H
Boyd, J. O., *g* 50 Univ. Pl.
Boynton, F. L., *Fr. a* 18 Van Deventer Av.
BRACKETT, C. F., *Professor*, 4 Prospect Av.
Braddock, W. H., *Fr. a* 17 S Ed.
Bradfield, C. E., *Sp. s* 3 S W B
Bradford, E. W., *Jr. a* 12 N D
Bradley, J. A., *Jr. s* 2 S E B
Bradley, W., *So. s* 53 '79 H
Bradshaw, W. M., *Sr. a* 13 M D

Brakeley, G. A., *So. a* 141 L
Brandon, J. C., *Jr. a* 9 E B
Brank, R. S., *g* 31 A S
Brasher, P. M., *Jr. s* 1 N W
Breckinridge, H. S., *So. a* 41 L
Brennan, E. A., *Fr. a*
164 Nassau St.
Brewster, J. R., *Sr. a* Dodge Hall.
Brinkema, B. J., *g*
94 Alexander St.
Brinkerhoff, R. S., *Sr. a* 1 E B
Broesel, H., Jr., *Fr. s* 15 Univ. Pl.
Brokaw, DeW. P., *Fr. s* G, U
Brokaw, R. W., *1 e* 4 S W
Brook, C., *Fr. a* Ewing St.
Brooke, F. M., *Jr. s* 16 M D
Brooks, C. A., *Sr. a* 132 L
Brooks, J. N., *Jr. a* 52 L
Brooks, N. R., *Sr. a* 161 L
Brooks, W. B., Jr., *So. s* 12 '79 H
Brooks, W. M., *So. s*
266 Nassau St.
Brosius, L. G., *Sr. s* 123 L
Brower, C. deH., Jr., *Sr. a* 2 L P
Brown, A. H., Jr., *Sr. s* 81 B
Brown, B. W., *Jr. a* 62 B
Brown, C. F., *Sr. a* 8 E B
Brown, C. P., *Sr. a* 6 N D
Brown, E. L., *Jr. s* 4 L P
Brown, F. L., *Sr. a* 5 S W B
Brown, G. G., *Sp. s* 72 L
Brown, G. M., *Fr. s* 47 Univ. Pl.
Brown, G. M., Jr., *Sr. s*
354 Nassau St.
Brown, H., *Jr. a* 8 E B
Brown, J. B., *g* 38 A S
Brown, J. T., *So. s* 66 Nassau St.
Brown, L. H., *So. s* 90 Nassau St.
Brown, R. M., *So. a* 66 Nassau St.
Brownell, R. C., *So. a* 7 E B
Bruce, J. M. H., *Fr. a* 47 Univ. Pl.
Bruen, C. E., *So. s* Hill
Brunswick, W., *Jr. s* 10 S M R
Bryan, S. G., *Fr. s*
29 Van Deventer Av.
Bunn, B. F., *So. a* 121 L
BUNN, H. C., *Curator*, Univ. Offices
Bunting, C. D., *Sr. s* 22 B
Burgess, J. S., *Sr. a* 13 E W
Burk, C. A. D., *Fr. s* 31 Univ. Pl.
Burke, T. J., *Sr. a* 12 E W
Burkhart, J. P., *Sp. a* 5 N Ed.
BURNHAM, C. E., *Choirmaster*,
448 St. Nicholas Av., New York
Burslem, G. A., *g* 27 A S
Burton, G. L., *Jr. a* 11 W W
Bushnell, H. E., *Sp. s*
37 Wiggins St.
Buswell, G. J., *So. s* 18 W W
Butler, E. F., *Jr. a* 11 U P
Butler, E. H., *g* 18 S W
BUTLER, H. C., *Lecturer*, Absent
Butler, L. L., *Fr. a*
168 Nassau St.
Buzby, S., *Sr. s* 10 W M W
Byles, R. P., *Fr. a* 12 S W
Byram, H. F., *Jr. s* 4 E M W

CADWALADER, J. L., *Trustee*,
New York City
Cadwalader, L., *Sr. a* 7 N D
Callan, G., *Sr. a* A, B
Calverley, E. E., *Jr. a* 1 N D
CAMERON, A. G., *Professor*,
26 Alexander St.
Cameron, E. S., *Sp. s* Hill
CAMERON, H. C., *Professor*,
34 Mercer St.
Cameron, M. K., *Fr. a*
24 Chambers St.
Camp, W. H., *So. s* 9 E M W
Campbell, J. L., *Jr. a* 47 Univ. Pl.
Cappeau, J. P., Jr., *Fr. s*
33 Ed. Pl.
Carber, F. H., *So. a* K, U
Carey, C. D., *Fr. a* 15 S Ed.
Carey, J. A., *Fr. a* 45 U
Carothers, S., *Jr. s* 43 L
Carson, J. R., *So. s* Hill
Carson, R., *So. s* Hill
CARTER, J. B., *Professor*, Absent
Carter, P. B., *Sr. a* 11 S W
Carton, A. T., *Sr. a* 111 L
Carton, L. R., *So. s* 2 W M W
Carver, C. Q., Jr., *Fr. s*
138 Nassau St.
Case, D. H., *So. s* 3 M D
Case, E. DeF., *Fr. s* 11 Univ. Pl.
Caskey, R. E., *Jr. a* 1 N D
Catlin, R., *Fr. a* P. U
Cavanaugh, T. B., *Sr. a*
90 Nassau St.
Cecil, S. R., *Jr. a* 7 W M W
Chalmers, A. R., *Fr. a*
14 Van Deventer Av.
Chamberlain, B. F., *Jr. a* 2 S E B
Chamberlain, F. G., *So. s*
90 Nassau St.

Champlin, C. D., *Fr. s* 15 Dickinson St.
Chandlee, E. E., *Fr. s* 47 U
Chandlee, E. G., Jr., *Sr. s* 10 N D
Chapman, R. B., *So. s* 98 B
Chew, P. F., *So. s* 15 U P
Childs, A. E., *So. s* 2 L P
Chislett, J. R., *So. a* 6 S W B
Christie, R. D., *Fr. a* 14 M D
Clark, C. B., *So. a* 8 W W
Clark, D. H., *Fr. s* 31 Univ. Pl.
Clark, H. A., *g* 409 H S
Clark, H. N., *So. s* 9 S W
Clark, K. S., *Sr. a* 12 E B
Clark, M. B., *Fr. s* 1 Van Deventer Av.
Clark, T. S., *Fr. a* 2 N W
Clark, W., Jr., *Fr. s* 11 Park Pl.
Clark, W. A., *1 e* 2 N W
Clark, W. M., *g* 51 B S
Clarke, D., Jr., *Sr. a* 111 L
Cleland, T. H., *g* 115 H S
CLEMONS, W. H., *Instructor*, 10 Dickinson St.
CLEVELAND, G., *Trustee*, 58 Bayard Lane
Cline, E. L., *Jr. s* 33 L
Clothier, R. C., *Fr. s* 15 Univ. Pl.
Cloud, C. M., *Jr. s* 42 B
Coale, S. T., *So. a* 2 S W
Coan, H. M., *So. a* 20 N W
Cochran, G. I., *Jr. s* 68 L
Cochran, M. G., *So. s* 6 S W B
Cohen, A. H., *Fr. a* 10 N Ed.
Cole, P. G., *Jr. a* 19 M D
COLLINS, V. L., *Ref. Librarian*, Absent
Colvin, W. H., *Fr. s* 15 Dickinson St.
Comstock, W. P., *Fr. s* 15 N Ed.
Conde, L. H., *Jr. s* 33 L
Condit, F. H., *So. s* 5 S W
CONEY, J. H., *Ass't Professor*, 78 Alexander St.
Conger, C. S., Jr., *Sr. a* 6 S E B
Connell, P. G., *Jr. s* 153 L
Connolly, H. J., *Jr. a* 5 N R
Connors, W. B., *Fr. s* 21 Chambers St.
Conver, S. D., *So. a* 13 N M R
Conwell, G. M., *Sr. a* 9 S M R
Cooder, C. M., *So. s* 3 E B
Cook, F. R., *Fr. s* 18 W W
Cook, R. B., *So. s* 183 L
Cook, R. S., *Fr. a* 53 Univ. Pl.
Cooke, F. W., Jr., *So. s* 10 U P
Coon, A. W., *So. s* 17 U
Cooney, J. L., *So. a* 25 M D
Coons, J. C., *Fr. a* 11 Univ. Pl.
Coover, C., *Sr. a* 3 S R
Corbin, H. K., *Fr. s* 39 Univ. Pl.
Corkran, B. W., *So. s* Hill
Cornwall, E. B., *Sr. a* 9 E W
CORNWALL, H. B., *Professor*, 51 Nassau St.
Cornwell, G. G., *Fr. s* 148 Nassau St.
Cory, L. D., *So. a* 37 S Ed.
COSGRAVE, J. S., *Assistant*, Treasurer's Office
Cossitt, F. H., *Jr. a* 52 '79 H
Coughlin, G. H., *Sr. a* 5 W M W
COVINGTON, H. F., *Ass't Prof'r*, 65 B
Cowan, J. D., *Fr. s* 33 Van Deventer Av.
Coxe, M., *Jr. a* 7 N R
Coyle, D. C., *Fr. a* 5 S Ed.
Coyle, R. F., *So. s* H, U
Coyle, T., *g* 74 Alexander St.
Craig, A., *So. s* 37 Wiggins St.
CRAIG, H., *Instructor*, 34 L
Crane, T., *Fr. s* 31 Univ. Pl.
Cranmer, G. E., *So. s* 2 W M W
Crary, D., *So. s* 23 L
CRAVEN, E. R., *Trustee*, Philadelphia, Pa.
Crawford, K. B., *Sr. a* 14 B
Crawford, S. L., *Fr. s* 14 B
Creighton, J. H., *So. s* E, U
Cresse, G. H., *Jr. a* 10 N M R
CRITCHLOW, F. L., *Instructor*, 8 N W
Crosby, W. S., Jr., *Sr. s* 5 W W
Cross, J. F., Jr., *Jr. s* 171 L
Cudell, C. F., *So. s* 94 B
Culver, B. W., *So. s* 66 Nassau St.
Cummings, H. M., *So. a* 6 N M R
Cummings, L. C., *Fr. a* 47 Univ. Pl.
Cunningham, F. W., *So. s* 12 S W
Cunningham, G. S., *Jr. a* 133 L
Cunningham, J. H., *So. a* 141 L
Cunningham, W. W., *Jr. a* 21 Boudinot St.

Cutler, W. W., Jr., *Jr. s* 7 W W
CUYLER, C. C., *Trustee*, New York City

Daddow, S. H., *Sr. a* 73 B
Dages, O. N., *Jr. a* 14 L
Daggette, W. M. C., *So. a* 144 Nassau St.
DAHLGREN, U., *Ass't Professor*, 7 Evelyn Pl.
Dain, N., *So. s* 23 M D
Dale, LeR. E., *Fr. s* 14 S Ed.
Dallmeyer, T. D., *Sp. s* 6 S R
Daniel, L. L., *g* 210 H S
Daniel, Z., *Fr. s* 7 S Ed.
DANIELS, W. M., *Professor*, 210 Mercer St.
Darlington, H. B., *Jr. s* 182 L
Daub, W. H., *So. s* 39 U
Daughtrey, M. C., *g* 14 Edgehill St.
Davey, W. O., *Fr. a* 22 Ed. Pl.
Davidson, W. J., *Fr. s* 33 Ed. Pl.
Davies, H. D., *g* 402 H S
Davis, C. S., *Fr. a* 32 S Ed.
Davis, D. M., *So. s* 54 L
Davis, F. F., *So. s* 39 U
DAVIS, J. D., *Trustee*, St. Louis, Mo.
Davis, J. E., *Jr. a* 5 N R
Davis, J. H., *So. s* 47 U
Davis, O. L., *Fr. s* 15 Univ. Pl.
Davis, R. H., *So. a* 16 W W
Davis, S. R., *So. s* 23 M D
Davison, W. S., *Jr. a* 12 W B
Dawkins, C. C., *Sr. a* 15 Madison St.
Deems, C. P., *So. a* 92 B
Dempster, A. A., *So. a* Hill
De Ridder, J. H., Jr., *Sr. a* 61 L
De Turck, J., *Jr. a* 20 S W
DeVinne, C. DeW., *Jr. s* 66 L
Dick, J. J., *Fr. a* 29 U P
Dickinson, S. M., *Sr. s* 7 N D
Dickson, J. R., *Fr. s* 34 Van Deventer Av.
Dillon, H. L., *So. a* 35 U
DIXON, J., *Trustee*, Trenton, N. J.
Doane, R. E., *Jr. s* 6 W W
DOD, S. B., *Trustee*, Hoboken, N. J.
Dodd, A. W., Jr., *Sp. s* 136 Nassau St.
Dodd, T. N., *Sr. a* 2 E M W
DODGE, C. H., *Trustee*, New York
Doellner, A. H., Jr., *Sr. s* 5 S R
Dolph, S. E., *Fr. a* 47 Univ. Pl.
Dong, Seung, *Sr. a* 4 S D
Doolittle, F. W., *Sr. a* M U
Dorman, R. A., *Jr. a* 18 U P
Dorsey, E. A., *Fr. s* Hill
Douglas, G. C., *Sp. s* 17 Univ. Pl.
Douglas, L., *Jr. a* 64 '79 H
Douglas, R., Jr., *Jr. a* 19 M D
Downer, J., *Sr. s* 81 B
Doyle, D. B., *Sr. a* 43 B
Doyle, W. A., *Sp. s* Hill
Drake, R. W., *Jr. s* 36 L
Draper, R. A., *So. a* 124 L
Drayton, E. M., *Fr. s* 15 Univ. Pl.
Duff, G. M., *So. a* 23 L
Duff, M. F., *Fr. s* 29 Van Deventer Av.
DUFFIELD, H. G., *Treasurer*, University Offices
Dulles, J. F., *Fr. a* 27 Mercer St.
Dunbar, H. C., *So. a* 7 E M W
Duncan, R. P., *Sr. a* 7 E W
Dunham, C. T., *Fr. a* 16 Witherspoon St.
Dunham, F. H., *Sr. a* 7 U
Dunn, C. W., *So. a* 27 M D
Dunn, W. P., *Fr. a* 10 E M W
Dunning, H. D., *Fr. s* 88 Nassau St.
Dunning, L. M., *Sr. a* 10 W W
Durell, T. J., *So. a* 23 '79 H
Durham, D. B., *Sr. a* 17 M D
Durham, F. S., *Jr. a* 9 S E B
Durham, J. E., Jr., *Jr. a* 9 S E B
Durstine, R. S., *Fr. a* 39 Van Deventer Av.
Dusenbury, E. T., *So. s* 266 Nassau St.
Dutcher, B., *So. a* 80 Nassau St.
Dutcher, O., *So. s* 266 Nassau St.
Duvall, R. G., *Sr. a* 148 Nassau St.

Eagleson, E. L., *g* 78 B S
Eames, C. M., *g* 46 A S
Earle, D. P., *Sr. s* 41 B
Ebert, St. G., *Fr. s* 47 Univ. Pl.
Edwards, D., *Jr. a* 7 N R
Edwards, D. W., *g* 7 N R
Edwards, H. S., *Jr. s* 80 Nassau St.

Eells, J. D., *Sp. a* 8 M D
Eginton, J. W., Jr., *So. s* 3 W M W
EISENHART, L. P., *Instructor*, 63 L
Eisenhart, M. H., *Sr. s* 3 W B
Eisele, J. L., *Jr. s* 18 U P
Elder, R. J., *Fr. s* 138 Nassau St.
ELLIOTT, E. G., *Instructor*, 33 B
Elliott, H. W., *Fr. a* 33 B
Elliott, N. J., *g* 64 B S
Elsing, W., *Fr. a* 31 '79 H
Elwood, V. N., *Fr. a* 42 Wiggins St.
Ely, A., Jr., *Sr. a* 3 L P
Ely, J. M., *Jr. a* 4 S M R
EMBURY, A., II, *Instructor*, Nassau Club.
English, C. C., *Sr. s* 7 S R
Eppley, M., *Jr. s* 7 L P
Etherington, S. G., *Jr. s* 80 Nassau St.
Euwer, E. C., *Sr. a* 9 E W
Euwer, W. C., *So. s* 266 Nassau St.
Evans, F. W., *g* 206 H S
Evans, J. W., *So. a* 4 N W
EWING, N., *Trustee*, Uniontown, Pa.

Fager, P., *So. s* 5 E B
Failey, R. B., *Fr. s* 47 Univ. Pl.
Fairing, R. P., *Jr. a* Mercer Manor.
Fairlie, C. W., *So. s* 124 L
Fales, M. S., *Sr. a* 1 S M R
Farley, J. G., Jr., *Fr. a* 13 S Ed.
FARR, M. S., *Assistant*, 12 Maple St.
Farr, T. H. P., Jr., *So. a* 11 L P
Farrell, F. I., *So. a* 5 S W
Fayerweather, C. S., *Sr. s* 7 B
Felgenhauer, F. J., *So. s* 5 E B
Fell, F. E., *Fr. s* 2 S Ed.
Fellstrom, A. A., *g* 34 B S
Fender, R. C., *Fr. s* 33 Ed. Pl.
Ferris, E. F., Jr., *Sr. a* 8 S R
Ferry, E. T., *g* 47 B S
FINE, H. B., *Dean of the Faculty*, Dean's House
FINE, J. B., *Director*, Princeton Prep. School.
Finney, J. C., *g* 22 A S
Finney, W. P., Jr., *Fr. a* 9 N M R
Fischer, M. A., *So. s* Hill
Fish, E. C., *Fr. s* 13 S M R
Fish, H. D., *Jr. a* 10 E M W
Fisher, C. A., *g* 21 B S
Fisher, F., *Mechanician*, 10 Dickinson St.
Flagg, H. H., *Sr. s* 148 Nassau St.
Fleming, S. W., Jr., *Jr. a* 84 B
Flory, G. G., *Fr. s* 27 U
Fluhart, T. L., *Fr. s* 138 Nassau St.
FOGEL, P. H., *Instructor*, 6 S M R
Foley, F. T., *Fr. s* 34 Van Deventer Av.
Forbes, G., *Sr. s* 164 L
Forgan, R. R., *Fr. s* 42 U
Forman, W. P., *Sr. s* 3 S W B
Forsyth, R. W., Jr., *Fr. s* 36 Wiggins St.
Fosdick, R. B., *Sr. a* 10 E W
Foster, C. W., *Sp. s* 11 Dickinson St.
Foster, H. E., *Sp. s* 30 N Ed.
FOSTER, W., Jr., *Instructor*, 16 Bank St.
Foster, W. E., *Fr. a* 46 Van Deventer Av.
Foulke, W. L., *Sr. a* 15 N D
Fowler, A. B., *So. a* 9 N Ed.
Fowler, A. K., Jr., *Jr. a* 9 E B
Fowler, H. E., *Sp. a* 37 N. Ed.
Fox, F. B., *Sr. a* 64 L
Francke, F. R., Jr., *Sp. s* 33 L
Frank, A. G., *g* 33 A S
Franklin, W. H., *Jr. a* 9 E B
FRAZER, D. R., *Trustee*, Newark, N. J.
Freeman, J. E., *So. s* 92 B
Freeman, R. G., *g* 48 B S
Freeman, W. C., *Jr. s* 24 U P
French, C. H., *Fr. a* 41 N Ed.
French, R. S., *Sp. s* 6 W W
Frick, C., *Sr. s* 112 L
Froelick, L. D., *Jr. a* 31 L
Frontz, W. A., *So. a* 211 Nassau St.
Frost, R. V., *Fr. s* 162 Nassau St.
FROTHINGHAM, A. L., *Professor*, Absent
Fruit, F. T., *Fr. a* 9, 10 U
Fuller, C. J., *Sr. s* 76 U
Fuller, H. M., *Sr. a* 95 B
Fullerton, D. H., *So. a* 8 Chestnut St.
Funk, E. D., *So. a* 29 S W

Funk, J. C., *Sr. a* 3 W B
Furman, B. A., *Jr. a* 12 W B

Gaines, A. B., Jr., *Sr. s* 16 L
Galbraith, W. F., *g* 19 B S
Galey, T. M., *Fr. s* 11 Univ. Pl.
Gallaher, S. M., *Fr. s* 8 S M R
Galt, C. F., *So. a* 22 L
Galt, R. B., *Jr. a* 22 L
Gamble, C. H., *Sr. a* 12 B
Gardner, A. S., *Sr. a* A, B
GARFIELD, H. A., *Professor*, 49 Library Pl.
Garretson, J., *So. a* 15 S D
Garrett, W. L., *Sp. s* 9 U
Garrison, R. A., *Sr. a* 5 S M R
Gaskins, P. L., *Sr. s* 14 N W
Gee, H. J., *So. a* 26 M D
Gehrken, J. H., *Jr. s* 7 S D
Gensler, D. E., *Fr. s* 2 Nassau St.
GEORGE, C. A., *Ass't Librarian*, 19 Bank St.
George, L. B., *Fr. s* 15 Univ. Pl.
George, R. M., *So. s* 14 S W
Gerhard, E. A., *Jr. a* 8 E M W
Geyer, B. W., *So. s* Hill
Gibbens, C. B., *So. s* 184 L
Gibson, B. H., *Jr. s* 6 E B
Gilchrist, J. K., *Fr. s* 5 W B
Gill, P. L., *Sr. a* 12 S E B
Gill, W. A., *Fr. a* 47 Univ. Pl.
GILLESPIE, W., *Instructor*, 10 Nassau St.
Gilmore, J., *Jr. a* 5 N M R
Gilmour, H. C., *Fr. a* 181 L
Gilson, S. L., *Fr. a* 31 N Ed.
Gittings, J. C., Jr., *So. s* 51 '79 H
Glass, F. P., *Jr. a* 14 S D
Glass, J. P., *Fr. a* 14 S D
Glazebrook, O. A., Jr., *Fr. a* 41 '79 H
Glenn, R. C., *Fr. a* 164 Nassau St.
Goas, H. J., *Jr. a* 13 S D
Goas, H. Z., *So. a* 14 N M R
GOLDIE, G., *Director*, 35 Univ. Pl.
Goldsborough, L. T., *So. s* 2 E W
Goodeno, J. M., *Jr. s* 4 E M W
Goodman, K. S., *Jr. s* 86 Nassau St.
Goodrich, L., *Jr. s* 8 W M W
Goodwin, F. L., *So. a* 15 S D
Goppoldt, P. R., *Fr. s* 36 N Ed.
Gopsill, J. W., *Jr. a* 17 S W
Gordon, J. G., Jr., *So. a* 20 U P
Gordon, W. S., Jr., *So. s* 143 L
Graham, S. T., *Sr. a* Dutch Neck, N. J.
Grandin, G. M., *Fr. s* 31 Univ. Pl.
Granger, F. S., *Sr. s* 31 B
Gratz, H. G., *g* 38 B S
Grau, W. H. F., *Fr. a* 12 Park St.
Gray, A. E. N., *Jr. s* 4 W M W
Gray, G. A., *Fr. s* 2 S W
Gray, T. F. N., *Jr. s* 4 W M W
Green, G. F., *So. s* 66 Nassau St.
Green, G. R., *Sr. a* 27 M D
GREEN, H. W., *Trustee*, Trenton, N. J.
Green, J. C., *Fr. a* 45 Univ. Pl.
Greene, C. J., *Fr. a* 168 Nassau St.
Greene, C. W., *Jr. a* 10 E W
Greenland, H. B., *Jr. s* 52 L
Greenwood, J. R., *Sr. s* 2 E B
Gregory, F. A., *Fr. s* 47 Univ. Pl.
Greski, T., *So. a* C, E B
Griffith, M. E., *Sr. s* 52 B
Griggs, D. C., *Sr. a* 5 S W B
Grimes, J. L., *Sr. s* 3 S E B
Griscom, W. M., Jr., *So. a* 37 Wiggins St.
Gross, A., *g* 11 N Ed.
Gruber, H. B., *Sp. s* 34 Van Deventer Av.
Guillaudeu, D., *Fr. s* 15 Univ. Pl.

Hackett, G. D., *Sp. s* 34 Van Deventer Av.
Hagan, H., *So. a* F, W B
Haight, H. W., *So. a* 26 M D
Hale, P. M., *Jr. s* 53 '79 H
Haley, R. J., *Fr. a* 29 Van Deventer Av.
HALL, J. P., *Instructor*, 26 Bank St.
Halliday, E. R., *Fr. s* 31 Univ. Pl.
Halliday, H. B., *Sr. a* 13 B
Hallimond, W. J., *Fr. s* 148 Nassau St.
Halsey, E. C., Jr., *So. s* 16 W W
Halsted, D., *So. a* 24 '79 H
Hamblen, A. A., *Sr. a* 4 N M R
Hamill, C. M., *Fr. s* 1 N M R
Hamilton, D. C., *Sr. s* 23 B
Hamilton, S., *Jr. a* 133 L
Hamilton, T. P., *Jr. a* 6 W B

Hampson, A. C., *So. s* 4 W B
Handy, D. M., *Fr. a* 190 Nassau St.
Haney, H. S., *So. a* 14 S M R
Hansl, R. H., *So. a* 7 S M R
Hardy, E. C., *Jr. s* 4 S Ed.
Harlan, E. H. W., *Fr. a* 8 S M R
HARPER, G. McL., *Professor*, 36 Mercer St.
Harris, A., *Jr. a* 19 S M R
Harris, F. M., *So. s* 266 Nassau St.
Harris, H., *Sr. a* 16 S M R
HARRIS, W. B., *Professor*, 280 Nassau St.
Harrison, G. A., *Sp. s* 3 S E B
Harrison, J. W., *Fr. a* 15 Chambers St.
Hart, J. F., *So. a* 13 S M R
Hartzell, J. L., *So. a* 7 S M R
Harvey, S. G., *Fr. s* 22 Ed. Pl.
Harvey, T. W., Jr., *Sr. s* 15 W W
Haskell, F. K., *Jr. s* 11 W B
Hatch, A. P., *Jr. s* 74 B
Hattori, B., *g* 2 N Ed.
Haughey, J. D., *Fr. s* 53 Univ. Pl.
Haughey, L. G., *Fr. s* 53 Univ. Pl.
Haulenbeck, J. W., *Fr. a* 32 Wiggins St.
Havron, J., Jr., *Fr. s* 53 Univ. Pl.
Hawes, E. P., *Fr. a* 14 M D
Hay, W. W., *Jr. a* 5 N W
Hayden, H. E., Jr., *Sr. a* 10 S W B
Hayes, M. C., *Jr. s* 72 L
Haywood, M. E., *Sp. s* 12 U
Hazard, E., *Fr. s* 15 Univ. Pl.
Hazard, W., *Jr. s* 1 S W B
Heagey, F. W., *Fr. a* 20 S Ed.
Hegeman, R. F., *Jr. a* 20 Alexander St.
Heim, E. D., *Fr. s* 13 N D
Heisler, W. H., Jr., *Sr. a* 7 S R
Hendrickson, J. A., *So. a* 10 S R
Henricks, W. A., *So. a* 9 S Ed.
Henry, A., Jr., *So. s* 184 L
HENRY, B., *Trustee*, Philadelphia, Pa.
Henry, C. P., *Sr. s* 6 S E B
Henry, G. H., *Fr. s* 34 Van Deventer Av.
HENRY, J. A., *Trustee*, Philadelphia, Pa.
Herold, H. C. H., Jr., *So. a* 11 S D
Herr, O. A., *Sr. a* B, W B
Herrick, H. T., *So. a* 10 M D
Herring, D. G., *So. a* 8 S W B
Herron, J. A., Jr., *Fr. s* 138 Nassau St.
Herron, W. A., Jr., *Fr. s* 19 Univ. Pl.
Hewitt, H., *Fr. s* 23 Madison St.
Hewitt, J. F., *So. a* 6 E M W
Heyniger, W. S., *Fr. s* 15 Dickinson St.
HIBBEN, J. G., *Professor*, 62 Washington Road
Higbie, H. S., *Jr. s* 36 L
Higgins, R., *Sp. s* 19 Madison St.
Hildreth, W. W., *Jr. a* 6 W B
Hill, F. S., *Jr. a* 9 W W
Hill, Rodney, Jr., *Fr. a* 9 W W
Hilliard, E. H., *Sr. a* 6 W M W
Hiltebeitel, A. M., *g* 27 Williams St.
Hinds, R., *Jr. a* 2 S D
Hinrichsen, C. F., *So. s* 9 W B
Hirsch, W. A., *Sr. a* 6 N R
Hoag, R. C., *Jr. a* 12 S D
Hoagland, A. N., *Jr. s* 6 E B
Hobbie, L. St. J., *Jr. a* 13 N W
Hobbs, A. L., *So. a* 4 W W
HODGE, F. B., *Trustee*, Wilkes-Barre, Pa.
Hoe, P. S., Jr., *Sr. a* 8 S R
Hoen, F. J., *Jr. a* 22 B
Holbrook, R., *Jr. s* 182 L
Holden, C. L., *Fr. s* 2 Nassau St.
Holden, E. P., Jr., *Jr. a* 71 B
Holden, J., *Sr. a* 51 L
Holland, F. R., *Fr. s* 19 Univ. Pl.
Holland, M. B., *Sr. a* 7 U
Holliday, R. F., *Sp. s* 21 '79 H
Holmes, H., *Fr. s* 9 W M W
Holt, C. B., *So. a* 21 S Ed.
Holt, S. T., *2 e* Tower Club
Holzhauer, C. W., *Sp. a* Newark, N. J.
Hooks, D. M., *So. a* 18 N W
Hopkins, G. D., *So. a* A, E B
Horn, J. H., *So. s* 10 U P
Horner, C., *Sr. a* 12 Park St.
Horton, C. T., *Sp. s* 32 B
Horton, W. C., *Fr. s* 2 Nassau St.
Hosford, C. F., *Fr. a* 32 Wiggins St.

HOSKINS, J. P., *Ass't Professor*, 22 Bank St.
Hosmer, W. P., *Fr. s* 2 Nassau St.
Houston, W. S., *Fr. s* 34 Van Deventer Av.
Hovey, F. A., *Jr. a* 21 B
Howard, R. C., *Sr. s* 9 S D
Howe, F. R., *Jr. s* 16 N W
Howell, E. O., Jr., *So. a* 4 M D
Howie, B., *Jr. a* 15 M D
Hoyt, L. W., *Sp. s* 13 U
Hoyt, R. E., *Sr. s* 44 B
Hoyt, W. S., *Jr. a* 3 N R
Hubbell, S. B., *Sp. s* 9 S W
HUDSON, C. S., *Instructor*, The Bachelors
Huizinga, A. van C. P., *g* 7 A S
Hulbirt, E. R., *Fr. s* 14 N M R
Hull, A. S., *1 e* 4 N R
Hull, R. A., *Sr. a* 4 N R
Hulsizer, W. H., *So. s* 5 E W
Hulsizer, W. R., *So. a* 5 E W
HUN, J. G., *Instructor*, The Bachelors
HUNT, T. W., *Professor*, 48 Library Pl.
Hunter, L., *Sr. a* 5 N D
Huntting, G. N., *So. a* 40 U
Huston, J. A., Jr., *Fr. s* 2 Nassau St.
Hutchison, F. R., *Fr. s* 29 Alexander St.
HUTSON, F. L., *Instructor*, 26 Bank St.
Huyler, C. D., *So. s* 3 W M W
Hyde, J. L., *Sp. a* 60 B S
Hyde, W. M., Jr., *So., a* 60 B S

Ill, E. A., *Jr. s* 22 '79 H
Irwin, J. R., *Jr. s* 142 L
Irwin, W., *Sr. a* 4 N R

Jack, H. M., *Sp. s* 9 S D
Jack, S. F., *Fr. a* 19 N Ed.
Jackson, J. H., Jr., *Fr. a* 31 Univ. Pl.
Jackson, J. K., *Jr. a.* 12 W B
JACOBUS, M. W., *Trustee*, Hartford, Conn.
James, N., *So. s* 66 Nassau St.
Jamieson, E. S., *So. a* 11 '79 H
Janvrin, E. R. P., *Sr. a* 5 M D
Jefferson, A. C., *Fr. s* 32 Wiggins St.
Jenanyan, S. S., *So. a* 3 S W
Jennings, M. W., *So. s* 82 B
Johnson, H. McC., *So. a* 121 L
Johnson, R. K., *So. s* 17 U
Johnson, S., Jr., *Jr. s* 96 B
Johnson, W. F., Jr., *Sr. a* 7 U
Johnson, W. K., *Fr. s* 41 Univ. Pl.
Johnson, W. McC., *Fr. a* 22 N Ed.
Joline, J. F., Jr., *So. a* 17 E W
JONES, D. B., *Trustee*, Chicago, Ill.
Jones, D. R., *So. a* 9 N D
Jones, H. C., *Fr. s* 16 Chambers St.
Jones, H. L., *Fr. a* 22 Ed. Pl.
Jones, H. S., *Sr. a* 6 W M W
Jones, L., *Sr. s* 2 S W B
Jones, L. C., *So. s* 15 L P
Jones, R. B., *Fr. a* 68, 69 U
Jones, R. E., *Fr. s* Refectory, Sem.
Jones, R. H., Jr., *Jr. a* 3 N R
Jones, W. A., Jr., *Sp. s* 41 L
Joy, H. E., *Fr. a* 168 Nassau St.

Kafer, J. D., *Sr. s* 1 B
Kahler, H. C., *Jr. a* 62 '79 H
Kain, W. F., *Fr. s* 53 Univ. Pl.
Kalisch, I., *Fr. a* B, U
KALLEN, H. M., *Instructor*, 5 Nassau St.
Kallina, E. J., *Jr. a* 19 S W
Kampmann, I. S., *Sr. a* 10 N D
Kane, G., Jr., *Sr. a* 16 Alexander St.
Kane, J. F., *g* Princeton Prep. School
Karow, E., Jr., *Sr. s* 2 W B
Kase, H. W., *Fr. s* 31 Univ. Pl.
Kauffman, J. L., *Fr. a* 19 Univ. Pl.
Kauffmann, R. M., *Sr. a* 12 E W
Keeney, G. A., Jr., *So. s* 16 B
Keepers, G. A., *Fr. a* 4 U
Keepers, W. L., *So. a* 90 Nassau St.
Keith, H. H., *Jr. s* 24 L
Keith, R., *So. s* 10 S R
KELLOGG, E. H., *Organist*, 44 Alexander Hall
Kellogg, E. W., *Jr. s* 9 S R

KELLOGG, O. D., *Instructor*, 151 L
Kellogg, R. W., *So. a* 44 A H S
Kelly, J. H., *Fr. s* O, U
Kelso, W. G., Jr., *Sr. a* 17 W W
Kennedy, C. W., *g*
14 Van Deventer Av.
Kennedy, F., *Jr. s* 19 M D
Kerper, J. F., Jr., *So. s* M, U
Kerr, B. W., *Jr. s* 20 E W
Kerr, J. T., *Fr. a* 26 Ed. Pl.
Kerr, W. C., *g* 20 E W
Kerr, W. McC., *So. a* 31 '79 H
Kessler, H. C., Jr., *Sr. s*
5 W M W
Keyes, R. W., *Sr. s* 8 E W
Kidney, R. S., *So. s* 9 N W
Kienbusch, C. O. v., *Jr. a*
62 '79 H
Kilgore, R., *Fr. s* 32 Wiggins St.
Kilpatrick, G. W., *So. a* L, U
Kimball, D. E., *Sp. s* 123 L
Kimball, W. D., *Sr. s* 51 B
King, A. F., *Sr. s* 51 L
King, E. B., *Fr. s*
90 Nassau St.
Kirkman, R., *Sp. s* 8 W W
Kirkpatrick, L., *Jr. a* 42 L
Kline, F. L., *Jr. a* D, U
Kline, H. E., *Sp. a* D, U
Kline, W. H., *Sp. s* 27 Univ. Pl.
Klotz, F. G., *So. a* 16 N Ed.
Knott, L. A., *Fr. a* 12 Park Pl.
KNOX, R., *g* 304 H S
Koch, S. L., *Sr. a* 19 N W
Koehler, E. J., *Sr. s* 132 L
Kohler, H. R., *Sp. s* 9 E M W
Kolb, F. W., *Sp. a*
Refectory, Sem.
KOREN, W., *Instructor*, 65 B
Kouwenhoven, C. B., *So. s*
88 Nassau St.
Krause, A. K., *So. a* 14 S M R
Krieble, I. R., *Fr. a* 40 S Ed.
Kuttroff, P., *Fr. s*
46 Van Deventer Av.

La Dow, C. W., *Fr. a*
22 Madison St.
La Forge, F. B., *Sr. s* 12 W W
Laidlaw, E. C. R., *Fr. s* 98 B
Laird, D., *Jr. s* 24 L
Lambert, G. B., *Fr. s* 39 Univ. Pl.
Lamberton, C. D., *g* 309 H S
Landis, R. K., *So. a* 15 U
Lanning, K. H., *Fr. a*
34 Van Deventer Av.
Larson, T. E., *So. a* 15 S M R
Larzelere, C. T., *So. s*
88 Nassau St.
Latimer, E., *Fr. s*
44 Van Deventer Av.
Latimer, H. R., *Fr. s*
44 Van Deventer Av.
Lautz, M. W., *Fr. s* 33 S Ed.
Leake, F., *Fr. s* 19 Univ. Pl.
Leake, R. H., *Sr. a* 3 N D
Leaming, R. S., *Jr. s* 43 L
Leas, D. S., *Sp. s* 15 Univ. Pl.
Leavitt, E. D., *Fr. a* 15 S W
Leavitt, H. H., Jr., *Sr. a* 15 S W
Lee, T., *g* 408 H S
Le Fevre, C. A., *Fr. s*
34 Van Deventer Av.
Leggett, S. M., *Jr. a* 12 M D
Leitch, R. I., *So. s* 16 U
Leonard, G. A., *Fr. a* 7 U P
Leslie, E. H., *Jr. a* 7 S W B
Letts, F. C., *Jr. s* 13 '79 H
Levis, C. C., *So. s* 80 Nassau St.
LEWIS, E. S., *Professor*,
20 Bank St.
Lewis, W. D., *Sr. a* 21 M D
Lewman, H. P., *So. a*
80 Nassau St.
Lexow, M., *Fr. s* 3 U
LIBBEY, W., *Professor*,
Thanet Lodge
Libby, F. O., *Jr. a* 4 S R
Lichty, B. G., *Fr. s* 6 B
Liggett, T., Jr., *Jr. s*
90 Nassau St.
Lightcap, H. B., Jr., *Jr. a*
8 N M R
Limerick, F. B., *Sr. a* D, W B
Lingle, R. P., *Fr. s* 4 E B
Linton, J. M., *g* 43 B S
Lithgow, L. G., *So. a* 24 '79 H
Littell, W. B., *Sr. a* 34 B
Little, E. H., *Sr. a* 32 L
LITTMANN, E., *Lecturer*, Absent
Lloyd, H., *Sr. a* 11 S W
Lloyd, W. H., *Jr. a* 15 N W
Loeb, I. J. S., *Sr. s* 6 N R
LONG, A. W., *Instructor*, 11 B
Longcope, T. M., Jr., *Sr. s* 7 S R
Look, H. S., *So. s* 62 L

Loomis, E. H., *Professor*, 302 Nassau St.
Looms, G., Jr., *Fr. s* 68 U
Losey, L. A., *So. a* 9 N R
Lothrop, G. V., 2d, *Fr. a* 11 Dickinson St.
Louderbough, J. J., *So. a* 16 S W
Love, G. S., *So. a* Hill
Lovett, E. O., *Professor*, 73 Prospect Av.
Luckenbach, J. L., *Sp. s* 66 L
Luke, C. W., *Fr. s* 19 Univ. Pl.
Lunn, A. W., *So. a* 1 E W
Lyman, C. G., *Sp. a* 7 S E B
Lyon, C. A., *Sr. a* 6 W M W
Lyons, H. C. C., *Jr. s* 7 S D

McAlpin, A. H., *So. s* 35 U
McAlpin, C. W., *Secretary*, Chancellor Green Library
McAlpin, K. R., *Sr. a* 35 U
McAusland, R. H., *So. s* 11 E B
McCallum, D., *Jr. s* 14 S D
McCandless, W. T., *Sr. a* 68 B S
McCarter, G. W. C., *Fr. a* 54 '79 H
McCarthy, D. F., *Jr. s* 169 Nassau St.
MacCauley, H., *Sr. a* 19 N W
McCay, L. W., *Professor*, 257 Nassau St.
McClay, S. K., *Sp. s* 32 B
McClenahan, H., *Ass't Professor*, 12 Bank St.
McClintock, A. T., *So. a* Hill
McClintock, C. A., *So. a* 66 Nassau St.
McClintock, G. S., *Fr. a* 39 Univ. Pl.
Macloskie, G., *Professor*, 239 Nassau St.
McClure, A., Jr., *Jr. a* 33 '79 H
McClure, C. F. W., *Professor*, 257 Nassau St.
McClure, J. C., *Jr. s* 33 '79 H
McCook, J. J., *Trustee*, New York City
McCormick, C. H., *Trustee*, Chicago, Ill.
McCormick, F. C., *So. s* 9 W M W
McCormick, J. B., *Fr. s* 13 N D
MacCoy, W. L., *Jr. a* 96 B
McCracken, F. B., *So. s* 4 W B
McCrary, I. J., *So. s* H, U
McCreary, G. D., Jr., *Jr. s* 32 '79 H
MacCrellish, W. H., *Sr. a* 5 U P
McCulloch, M. F., *Fr. s* 36 S Ed.
McCutcheon, N. L., *So. s* 42 B
McDermott, F. P., Jr., *2 e* 15 N M R
McDermott, W. C., *Fr. s* 15 N M R
Macdonald, G., Jr., *Jr. a* 1 L P
McDonald, J. O., *Sr. a* 17 M D
McElroy, R. McN., *Ass't Professor*, 86 Stockton St.
McEwen, K. M., *Jr. a* 15 E W
McGee, B. F., *Sr. a* 13 S W
McGiffert, J. E., *Jr. a* 35 L
McIlvain, W. B., *So. s* 15 U P
McIlvaine, R. B., *Sr. a* U, U
McIntyre, N. W., *So. a* 2 W M W
McKaig, E. S., *Fr. s* 18 E W
McKee, J. D., *So. s* 266 Nassau St.
Mackenzie, C. A., *Jr. a* 83 B
Mackie, A., *So. a* 4 E B
Mackie, J. B. C., *g* 45 B S
McKimmie, A. A., *Jr. a* 9 S R
McKinlay, E. L., *Sr. a* 83 B
McLauchlan, W. H., *Instructor*, 91 B
McLean, D., *So. a* 10 S W
McLean, E. H., *Fr. a* 40 N Ed.
McLean, W. E., *So. a* 5 N M R
McLeod, A. A., Jr., *Jr. a* 171 L
McLeod, W. C., *g* 308 H S
McMeen, A. R., *Sp. s* O, U
McMillan, A., *Sp. s* 40 Bayard Lane
McMillan, C., *Professor*, 40 Bayard Lane
McMillan, F. C., *So. s* 40 Bayard Lane
McNair, R. S., *Fr. a* 26 S Ed.
McNaughton, J., *Jr. s* 71 L
McNeill, C. C., *g* 33 B S
McNiece, I., *Sr. a* 2 N R
McNiece, R. S., *So. a* 79 U
Macpherson, D. F., *Jr. a* 42 L
Macpherson, J. F., *Jr. a* 38 L
McPherson, O. H., *Jr. a* 17 B
McPherson, S. J., *Trustee*, Lawrenceville, N. J.

McWILLIAMS, E. C., *Instructor*, 23 Ed. Pl.
Machen, J. G., *g* '39 A S
Madden, J. D., Jr., *Fr. s* 134 L
Maddux, C. V., *Sr. a* 2 S M R
Magee, E. H., *Sr. a* 9 B
MAGIE, D., Jr., *Instructor*, 14 N D
MAGIE, W. F., *Clerk of the Faculty*, 78 Library Pl.
MAGIE, W. J., *Trustee*, Elizabeth, N. J.
Mahany, D., *So. s* 16 Van Deventer Av.
Mahn, B. R., *Sp. s* 18 E W
Makino, M., *g* 12 N Ed.
Malcolm, G. H., *Sr. s* 5 W B
Man, E. A., *Sr. a* 6 B
Mann, P. C., *Sr. a* 2 E M W
Manness, S., *So. s* 7 E M W
March, W. A., *Fr. s* 53 Univ. Pl.
Markley, L., *Fr. s* 138 Nassau St.
Marlin, R. D., *Fr. s* 33 Ed. Pl.
MARQUAND, A., *Professor*, Guernsey Hall.
Marquis, C. D., *Jr. a* 61 '79 H
Marsching, R. L., *Fr. s* N, U
Marsh, H. L., *So. s* 63 '79 H
Marshall, H. D., Jr., *Sp. a* A, B
Marshall, T. H., *Fr. a* 19 Univ. Pl.
Martin, A. T., *Fr. s* 11 Park Pl.
Martin, G. W., *Fr. a* 131 L
Martin, J., *So. a* 92 B
Martin, J. L., Jr., *So. a* 172 L
MARTINS, MISS C., *Ass't Librarian*, 41 Univ. Pl.
Mason, J. G., Jr., *Sr. a* 8 S E B
Mason, W. L., *Sr. s* 72 B
Mathews, C. H., Jr., *Sr. a* 64 B
Mathews, E. G., *So. s* 2 U
Mathews, T. R., *So. a* 6 E B
Matter, J., *Sr. s* 14 E W
Matthews, W., *So. a* 10 N W
Maurice, A. T., *Jr. a* 15 N W
Mayer, P. H., *Sr. a* 20 M D
Mayers, J. M., *Sr. a* 34 B
Mecabe, E. W., *Fr. a* 22 Ed. Pl.
Menefee, A. B., *So. s* 1 W M W
Merrill, H. H., *Sp. s* 29 Van Deventer Av.
Messler, D. I., *Jr. a* Kingston, N. J.
Messler, J. S., *Sr. a* 21 L
Mettler, T. H., *Fr. a* 42 Wiggins St.
Mierow, C. C., *Sr. a* 44 Mercer St.
Miers, E. D., *Fr. a* 34 Van Deventer Av.
Miles, A. R., *So. a* C, U
Miller, C. F., *So. s* 1 S E B
Miller, E. P., Jr., *Fr. a* 14 Chambers St.
Miller, J., *Jr. a* 7 N W
Miller, K. D., *Fr. a* 22 Ed. Pl.
Milligan, J. C., *Fr. s* 138 Nassau St.
Milliken, H. O., *Sr. a* 132 L
Milton, H. S., *Sr. a* 43 B
Minott, H., *Sr. a* 162 L
Mitchell, S. S., *Fr. a* 38 Stockton St.
Mitchell, W. M., *g* 27 William St.
Mixsell, H. R., *Jr. a* 9 S W B
Moller, W. G., *Fr. s* 16 Van Deventer Av.
Monie, C. C., *Sr. a* 3 W W
Moon, E. J., *Fr. s* 138 Nassau St.
Moore, F. S., *Sr. a* 2 N R
Moore, H. *Sr. s* 12 E B
MORGAN, J. S., *Associate Librarian*, Constitution Hill
Morgan, S. McK., *So. s* 136 Nassau St.
Morrell, P. E., *Sr. s* 21 '79 H
Morris, L. S., *Jr. s* 1 L P
Morris, McL. F., *So. a* 11 E B
Morris, R. H., *g* 15 A S
Morrison, H. S., *Sp. a* 142 L
Morriss, A. W., Jr., *Sr. s* 90 Nassau St.
Morrow, E. B., *g* 16 S Ed.
Morton, S., *Jr. s* 3 B
Moses, P. E., *Fr. a* 172 Nassau St.
Moss, G. K., *Fr. a* 45 Univ. Pl.
Motter, W. C., *Sp. a* 14 E W
Mount, H., *Sr. a* 3 S R
Mount, R. I., *Fr. s* 138 Nassau St.
Mowry, T. C., *Sr. a* 15 L
Moyer, W. T., *So. a* 18 S M R
Mullen, F. W., Jr., *Sr. a* 21 M D
Muller, J. A., *So. a* 8 N Ed.
Mulry, G. W., *Sp. s* 54 B
Munn, J. R., *Jr. s* 153 L
Munn, O. D., Jr., *Jr. s* 7 L P
Munoz, J., *Fr. s* 11 Dickinson St.
Murfree, M. B., *Sr. a* 10 N R

Murray, L. F., *Sp. s* 6 S W
Musser, C. A., *Jr. a* 10 E M W
Myers, J. P., *Fr. a* 32 Wiggins St.

Nakagawa, T., *g* 32 N Ed.
Nash, D. H., Jr., *So. s* 162 Nassau St.
Nash, F. J., *Jr. a* 2 B
Nason, F. R., *Jr. a* 131 L
Neff, W. R., *Fr. s* 15 Dickinson St.
NEHER, F., *Professor*, 96 Library Pl.
Neill, G. G. E., *So. a* 266 Nassau St.
Neis, W. C., *Jr. a* 11 E W
Nelson, J., *g* 66 B S
Nelson, S. F., *Sr. a* 5 S D
Nesbit, V. J., *g* 61 B
Nevin, E. D., *Sr. s* 68 L
Newcomb, L. W., *So. s* 7 S D
Newell, J. A., *Sr. a* V, U
Newkirk, J. M., *g* 117 H S
Nicholls, C. C., Jr., *Jr. a* 2 B
Nichols, C. C., *Fr. s* 11 Dickinson St.
Nicholson, A. D., *Sp. s* 25 Bank St.
Nickerson, J., Jr., *Sr. s* 44 B
Niles, M. S., *Fr. a* 39 Van Deventer Av.
Norton, P., *So. a* 4 S W B
Nuelle, J. H., *Jr. s* 25 M D
Nutt, J. B., *So. a* 82 Nassau St.
Nuttall, J., *Fr. a* 2 Nassau St.

Oakford, W. P., S. *Jr. s* 1 E M W
Oberndorf, P. E., *Sp. s* 9 S W B
Offutt, G. W., *Jr. a* 6 W B
Ogden, B. K., *Sr. a* 9 B
Olyphant, M., *Sr. a* 9 B
Ong, E. M., *Fr. s* 33 Ed. Pl.
Ormond, A. H., *Fr. a* 276 Nassau St.
ORMOND, A. T., *Professor*, 276 Nassau St.
Ormond, J. K., *Jr. a* 276 Nassau St.
Orr, A., Jr., *Jr. s* 142 L
Orrick, J., *Fr. s* 15 Univ. Pl.
Osborn, A. H., *So. s* 90 Nassau St.
Osborn, A. P., *Sr. a* 162 L
Osborne, L., *So. s* 1 S W B
Osborne, R. D., *Fr. s* 19 Univ. Pl.
Ostrom, H. C., *g* 15 B S
Otheman, R. C., *So. s* 66 Nassau St.
Otis, A. H., *Sr. s* 5 W B
Otis, N. P., Jr., *So. s* 66 Nassau St.
Overton, G. M., *Fr. a* 32 Mercer St.
Oves, G. McC., *Jr. a* 12 N M R
Owen, R. W., *So. s* 66 Nassau St.

PACKARD, W. A., *Professor*, College Pl.
Palmer, E., *2 e* 10 Nassau St.
Palmer, E. A., *Jr. a* 7 W M W
Pardoe, W. D., *Sr. s* Tusculum
Paris, R. L., *Sp. s* 24 Mercer St.
Parke, N. G., 2d, *So. s* 5 L P
Parker, H. T., *So. a* C, U
Parkin, H. C., *So. s* K, U
PARROTT, T. M., *Professor*, 104 Mercer St.
Patrick, W. B., *Fr. a* 62 U
Patterson, K. B., *g* 14 Edgehill St.
PATTON, F. L., *Ex-President*, Springdale
PATTON, G. S., *Professor*, Springdale
Paull, A. S., *Sr. s* 10 N D
Payne, E. D., *Sr. s* 10 W W
Peabody, G. R., *Sr. a* 8 L P
PEABODY, R. H., *Ass't Librarian*, University Library
Pearl, D., Jr., *Jr. a* 148 Nassau St.
Pearl, W. E., *Sr. a* 148 Nassau St.
Pears, T. C., Jr., *So. a* 54 L
Peckham, P. T., *So. s* 4 W W
Peirce, C. C., *Fr. a* 11 Dickinson St.
Penrose, C., *So. s* 63 '79 H
Perley, A. P., Jr., *So. s* 82 Nassau St.
Perry, A. C., *Sr. s* 1 B
Perry, J. M., *Sp. s* 16 M D
Perry, O. H., Jr., *Jr. s* 16 M D
Peters, R., Jr., *Fr. s* 39 Van Deventer Av.
Peterson, C. W., *g* 20 B S
Petrie, J. J., *Jr. a* 7 N M R
Pfieffer, T. N., *Fr. a* 1 N Ed.
Phelan, J., *Sr. a* 64 L

PHILLIPS, A. H., *Professor*, Hodge Av.
Phillips, A. S., *Sr. a* 5 S R
Phillips, J. F. A., *Fr. s* 29 Van Deventer Av.
Phillips, J. R., Jr., *Sp. s* 5 S M R
Phillips, MacN. A., *Jr. a* 11 S E B
Phillips, W. J., *Fr. a* 53 Univ. Pl.
Phinny, H. B., Jr., *Fr. s* 36 Wiggins St.
Pierce, H. D., Jr., *Jr. a* 5 E M W
Pierson, H. O., *Jr. a* 2 S D
Pitts, R. S., *Jr. a* 12 N W
Poindexter, U. H., *Sr. a* 61 L
Pollock, R. D., *So. s* 54 L
Pomeroy, W. McL., *Fr. a* 34 '79 H
Pond, D. S., *Sr. a* 81 B
Popple, F. W., Jr., *So. s* 36 Wiggins St.
Porch, C. D., *Sp. s* 7 S W
Porterfield, A. B., *So. s* 154 L
Potter, A. T., *Sp. s* 42 L
PRENTICE, W. K., *Ass't Professor*, 12 Nassau St.
Presbrey, C. S., *Jr. s* 14 '79 H
Pressly, D. P., *g* 69 B S
Price, C. B., *Jr. a* 11 S E B
Price, C. D., *Fr. s* 15 Chambers St.
Price, J. H., *Fr. s* 11 S E B
Price, J. S., *Fr. a* 31 N Ed.
PRIEST, G. M., *Instructor*, 5 S E B
Prizer, W. M., *Fr. s* 33 Ed. Pl.
Pullen, E. C., *Fr. a* 16 Witherspoon St.
Pyle, D. H. McA., *Fr. a* 9 L P
Pyle, J. McA., *Jr. a* 9 L P
PYNE, M. T., *Trustee*, Drumthwacket
Pyne, M. T., Jr., *Fr. a* 10 L P

Quintard, C. L., *Jr. a* 9 M D

Rafferty, E. L., *Jr. s* 82 Nassau St.
Ralli, C. P., *Fr. s* 33 U
Randolph, G. M. F., *So. s* 3 E M W
Ranken, D. D., *1 e* 1 S W
RANKIN, E. M., *Instructor*, 43 '79 H
RANKIN, W. M., *Professor*, Evelyn Pl.
RAYMOND, G. L., *Professor*, 83 Bayard Lane
Raymond, H. J., *Sr. s* 3 N D
Read, C. N., *Fr. s* 32 U P
Read, R. J., *So. s* 3 E W
Ream, E. K., *Sr. a* 111 L
Ream, L. M., *Fr. a* 2 Nassau St.
Rebert, C. M., *Jr. a* 7 W W
Reed, H. B., *Jr. s* 38 Wiggins St.
Reed, T. B., *Fr. s* 16 Chambers St.
REED, W. M., *Ass't Professor*, 14 Prospect Av.
Rees, B. LeG., *So. s* Hill
Reid, S. J., Jr., *Jr. a* 31 L
Reimers, R. D., *Sr. s* 6 E W
Reinhart, F. O., *Sr. a* 15 N D
Reiter, B. F., *Fr. s* 35 William St.
Rendall, H. J., *g* 109 H S
Rentschler, G. S., *So. a* A, U
RENTSCHLER, H. C., *Instructor*, 29 Park Pl.
Rentschler, R. P., *Jr. a* 7 W B
Reppert, G. H., *Jr. s* 3 S Ed.
Reynolds, M. K., *Fr. s* 47 Univ. Pl.
Rheinstein, S., *So. s* 82 B
Richard, H. C., *Jr. a* 4 B
Richard, W. L., *Fr. a* 19 Univ. Pl.
RICHARDSON, D. W., *Instructor*, 303 H. S
Richardson, E., *Sr. a* 10 S E B
RICHARDSON, E. C., *Librarian*, 220 Mercer St.
Richardson, L. K., *So. a* 53 B
Richardson, R. B., *Jr. a* 35 L
Richardson, W. M., *Sr. a* 31 B
Ridgway, C. D., Jr., *Sr. s* 7 B
Riggs, J. F., Jr., *So. a* 9 N D
Righter, W. W. N., *Sp. a* 4 E M W
Riley, A. W., *Sr. s* 17 Madison St.
Rinker, R. A., *g* 62 B S
Ritter, F. W., Jr., *Fr. s* 19 Univ. Pl.
Robbins, C. A., *Fr. a* 18 N Ed.
ROBBINS, E. Y., *Professor*, 58 Univ. Pl.
Robert, D. R., *So. s* 154 L
Roberts, S. L., *g* 409 H S
Robinson, F. C., *Fr. s* 23 William St.
Robinson, M., *Jr. s* 2 S E B
ROBINSON, P. E., *Instructor*, 12 Nassau St.

Roche, C. E., *So. a* 24 M B
ROCKWOOD, C. G., *Professor*, 34 Bayard Lane
Rodgers, W. W., *So. s* 42 '79 H
Rollins, F. B., *Jr. a* 2 B
Roper, J. G., *Sr. a* 16 E W
Rose, A. L., *Fr. a* 31 Univ. Pl.
Rosenfeld, E. A., *Fr. s* 90 Nassau St.
Rouse, L. J., *Fr. a* 29 Alexander St.
Rouse, J. G., *Sr. s* 31 B
Rowan, T., *g* 41 B S
Royce, A. A., *Fr. s* 19 Madison St.
Rue, J. D., Jr., *Jr. s* 21 L
Rulon-Miller, J., Jr., *Sr. a* 6 N D
Rulon-Miller, S., *So. s* 39 U
Runyon, R. C., *Fr. s* 31 Univ. Pl.
Rupert, W. E., *Fr. s* 18 Van Deventer Av.
Russell, A., *g* 16 B S
Russell, C. P., *Sr. s* 62 Alexander St.
Russell, R., *Fr. s* Hill
Rust, J. D., *Sp. s* 136 Nassau St.
Rust, J. F., *So. s* Hill
Rutherfoord, A. H., *Sr. a* 10 W M W
Rutter, J. W., *Sr. a* 14 B

Saint John, F. B., *Sr. s* 2 U P
Sakamoto, T., *g* 12 N Ed.
Samuel, S., *Fr. s* 45 Univ. Pl.
Sanderson, R., *Sr. s* 5 M D
Sanford, E. S., Jr., *Sr. a* 11 N D
Sargent, G. L., *So. a* 19 W W
Sayen, W. H., Jr., *Sr. s* 64 B
Sayre, J. N., *So. a* 23 '79 H
Schaff, P. H., *Jr. a* 133 L
Schaff, S. R., *So. s* 3 E M W
Schermerhorn, R. P., *Sp. s* Hill
Schmitz, W. L., *Sr. s* 12 W W
Schmuck, A. J. C., *Fr. s* 31 S Ed.
Schoonmaker, W. J., *So. s* G, U
Schultz, C. K., *So. a* 12 S M R
Schumaker, I. R., *So. a* 54 B
Schussler, W. F., *Sp. s* 23 M D
Schwarzschild, M. M., *So. s* Hill
Schwob, H., *Jr. a* 3 B
Scott, A. H., *Jr. s* 4 S R
Scott, A. H., *Fr. s* 15 Dickinson St.
Scott, C. H., *Sp. a* 56 Bayard Lane
Scott, D., *So. a* 14 W W
Scott, J. F. R., *Fr. a* 47 Univ. Pl.
Scott, R. F., *So. s* 88 Nassau St.
SCOTT, W. B., *Professor*, 56 Bayard Lane
SCOTT, W. E. D., *Curator*, Princeton
Scribner, C. E., *Sr. s* 61 L
Scudder, C. D., *So. a* 11 '79 H
Scully, R. T., *Fr. s* 32 U P
Seeley, P. S., *Jr. a* 22 '79 H
Seeton, B. W., *Jr. s* 8 W B
Seitz, C. H., *So. a* 19 W W
Semple, J. L., *Sp. a* 1 W W
Serfas, T. A., *Fr. a* 18 S M R
Sewall, C., *Fr. a* 53 Univ. Pl.
Shafer, D. A., *Fr. s* 173 Nassau St.
Sharp, H., *So. s* 134 L
Sharp, T. R., *Sr. s* 2 E B
Shaw, H. N., *So. a* 41 L
Shearer, C. W., *g* Tower Club
Shipman, J. G., *Jr. a* 35 L
Shirk, J. H., *Sr. s* 74 B
Shirley, R., *So. a* 11 M D
Shoemaker, I. L., *Jr. a* 12 S W B
Shoemaker, L. B., *Jr. s* 1 E M W
Short, H. H., *Sr. a* 2 N D
SHOWERMAN, G., *Professor*, Nassau Club
Shumway, E. DeW., *Fr. s* 47 Univ. Pl.
Sidebotham, R. S., *So. a* 16 Witherspoon St.
SILVESTER, C. F., *Assistant*, 10 Nassau Hall
Simmons, H. M., *Jr. s* 14 '79 H
Simons, F. P., *Jr. a* 15 B
Simons, G. S., Jr., *Jr. s* 15 B
Simons, L. H., *Fr. a* 164 Nassau St.
Simpson, C. R., *Sr. s* 123 L
Simpson, H. M., *Fr. a* 11 Univ. Pl.
Simpson, R. S., *Jr. a* 16 N W
SINCERBEAUX, C. S., *Instructor*, 204 Nassau St.
Sinclair, S. M., *Jr. a* 96 B
Sinclair, W. J., *g* 27 S Ed.
Slaughter, R. B., *Sr. a* 153 L
Sloan, A. K., *So. a* 93 B
Sloane, G., *So. a* 17 N W

Smith, C. C., *So. s* 266 Nassau St.
Smith, C. F., *So. a* 17 N W
Smith, C. N., *Fr. a* 3 S M R
Smith, C. P., *Fr. s* 34 Bank St.
SMITH, F. C., *Instructor*, 3 S M R
Smith, F. N., *So. a*
38 Washington Road
Smith, G. D., *Fr. s* 54 '79 H
Smith, H. D., *Jr. a* 97 B
Smith, H. J., *Jr. s* 4 S Ed.
Smith, H. P., *g* 76 B S
SMITH, H. S. S., *Professor*, 4 E W
Smith, J. H., *So. a* 172 L
Smith, L. C., *So. a* 15 U
Smith, L. W., *Fr. a*
8 Dickinson St.
Smith, S. M., *Jr. a* 1 E M W
Smith, T. L., *Fr. a* 36 Wiggins St.
Sohmer, H. J., *So. a* 20 W W
Solinger, W. B., *Fr. a* 25 N Ed.
South, A. L., *g* 77 B S
Southworth, F. P., *Fr. s*
19 Madison St.
Spadone, A., 2d, *Fr. s*
39 Van Deventer Av.
Spangler, J. W., *Sr. a* 4 N M R
Spearman, T. C., *So. a*
172 Nassau St.
Spelletich, K., *Jr. s* 62 B
Spencer, A. H., *Fr. a* 2 Nassau St.
Spencer, C. DuP., *Fr. a*
47 Univ. Pl.
Spencer, F. N., *Sr. s* 11 N D
Spencer, J. C., *So. a* 183 L
Spohn, G. S., *Jr. a* 13 S D
Springer, W. C., *Fr. s* 11 Univ. Pl.
Squire, A. B., *Sp. s* Hill
Stagg, D. C., *Jr. s* 9 M D
Stainback, I. M., *So. a* 10 N R
Stanard, E., *Fr. s* 15 Univ. Pl.
Stanley, E. O., Jr., *Jr. a* 5 N W
Steele, L. S., *So. a* 90 Nassau St.
Steen, J. E., *g* Dodge Hall
Stephenson, G. T., *Fr. s* 24 B
Sterritt, R. J., *So. a* 1 S D
Stevens, R. E., *Sp. s*
23 William St.
Stevens, W. L., *Sr. a* 23 B
Stevenson, T. K., *Sr. s*
20 Library Pl.
Stevenson, W. W., *Sr. s* 34 B
STEWART, G. B., *Trustee*,
Auburn, N. Y.
Stewart, G. B., Jr., *Jr. a* 9 N W
STEWART, J. A., *Trustee*,
New York City
Stewart, J. A., 3d, *Sr. a* 186 L
Stewart, V., *Sr. a* 43 B
Stickney, H., *Jr. s* 11 S M R
Stiles, H. R., *Fr. a* 21 N Ed.
Stites, J. H., *Jr. a* 42 B
Stockton, B., Jr., *Jr. a* 4 W M W
Stockton, R., *Fr. a* Morven
Stoever, E. R., *Fr. a* 31 Nassau St.
STOKES, Gov. E. C., *Trustee*,
Trenton, N. J.
Stoutenburgh, R. B., *Sr. a* 152 L
Strater, C. H., *Jr. a* 86 Nassau St.
Stratton, B. F., *So. s* 20 A S
Stratton, H. M., *Sr. a* 2 E M W
Stratton, P., *g* 20 A S
Streubel, C. E., *g* 403 H S
Strom, E. N., *Jr. s* 94 B
Stromberg, C. M., *Jr. s* 8 E B
STROMQUIST, C. E., *Instructor*,
27 Madison St.
Stromsten, F. A., *g* 43 U
Stryker, E. W., *Fr. s*
46 Van Deventer Av.
Stuart, A. E., *Fr. a* 2 Nassau St.
Stuckey, H. S., *Fr. a* 33 S Ed.
Studer, A. C., Jr., *Fr. s*
34 Van Deventer Av.
Stutesman, J. H., *Sr. a* 11 N D
Sullivan, P. B., *Jr. a* A, E B
Sunstein, E., *Jr. a* 46 L
Sutton, C. K., *Sr. a* 10 N R
Swan, H., *Sr. s* 53 L
Swartz, A. S., Jr., *Fr. a*
47 Univ. Pl.

Takahashi, M., *g* 10 S Ed.
Talbot, B. A., *Fr. s* 47 Univ. Pl.
Talbott, A. F. M., *Jr. s* 8 W B
Taliaferro, C. C., Jr., *So. s* 10 E B
Taliaferro, T. S., *Fr. a*
53 Univ. Pl.
Taplin, H. W., *Sp. s*
148 Nassau St.
Tarbell, S., *Jr. s* 1 N W
Taylor, E. H., *Fr. s*
172 Nassau St.
Taylor, H. F., *Fr. a* 22 M D
Taylor, H. G., Jr., *Fr. s*
46 Van Deventer Av.
Taylor, J. C., *Sr. a* D, W B

Taylor, P. M., *Fr. a*
8 Dickinson St.
Taylor, R. C., *Fr. s*
46 Van Deventer Av.
Tenney, H. S., *So. s* 47 U
Terry, J. L., *Sr. a* 2 S W B
Thayer, L. C., *Jr. s* 10 S D
Thibaut, R. E., Jr., *Fr. s*
53 Univ. Pl.
THILLY, F., *Professor*,
67 Prospect Av.
Thomas, D. L., *g* 6 S D
Thomas, J. G., *So. s* 12 '79 H
Thomas, N. M., *Sr. a* 2 N R
Thomas, W. L., *So. a* 26 M D
Thompson, C. D., Jr., *Sr. a* 95 B
THOMPSON, H. D., *Professor*,
11 Morven St.
Thompson, H. S., *Jr. s*
Kingston, N. J.
Thompson, J. R., *Sr. a* 15 S M R
Thompson, L. M., *Fr. s*
39 Univ. Pl.
Thompson, W. N., *Fr. a*
164 Nassau St.
Thomson, McL., *So. a*
162 Nassau St.
Throckmorton, A. M., *Fr. s* 6 B
Tilden, H. M., *Fr. s* 33 Ed. Pl.
Timmons, W. M., *So. a* 44 L
Tittmann, C. T., *Sr. s* 14 N W
Tobey, E. D., *Sr. s* 13 B
Toland, E. D., Jr., *Fr. s*
15 Univ. Pl.
Tooker, N. B., *Jr. a* 61 '79 H
TOPLEY, J. W., *Proctor*,
32 Wiggins St.
Topping, H. J., *Sp. s*
82 Nassau St.
Townsend, E. D., *Sr. s* 2 M D
Townsend, T. G., Jr., *Sr. s* 2 M D
Trace, J. M., *Jr. a* 1 M D
Treadwell, H. G., *Fr. s*
15 Dickinson St.
Treat, E. B., *g*
Lawrenceville, N. J.
Trent, E. K., *Sr. a* 16 E W
Trimble, R., Jr., *Fr. s*
11 Dickinson St.
Trone, R. E., *Sr. a* 2 S M R
TUCKERMAN, B., *Lecturer*, 65 B
Turner, A. H., *Fr. s* 33 Ed. Pl.
Turner, W. F., *Jr. s* 31 Nassau St.
Tuttle, F. H., *Sr. s* 168 Nassau St.
Tweedy, L. L., *Sr. s* 53 L

Ullmann, F., Jr., *Jr. a* 5 B
Updegraff, S., *Jr. s* 8 S E B
UPSON, W. L., *Instructor*, 43 '79 H
Uptegrove, G. M., *Jr. a* 5 E M W
Upton, C. P., *Sr. s* 2 U P
Upton, E. B., *Sp. s* 60 Univ. Pl.
Urban, P. L., *Jr. a* 38 L

Valentine, H. D., *So. a* 19 E W
Vanderbilt, O. DeG., Jr., *Jr. s*
8 E M W
Vanderhoef, G. W., Jr., *Fr. s*
47 Univ. Pl.
Vandervelde, C., *g* 402 H S
van der Voort, J. N., *Fr. s*
15 Dickinson St.
Van Deusen, C. C., Jr., *So. a*
Dodge Hall
Vandewater, W. C., *So. a*
45 Van Deventer Av.
Van Doren, W. V., *Sr. a* 30 S Ed.
Van Dyke, A. D., *Sp. s*
108 Mercer St.
VAN DYKE, H., *Professor*,
59 Bayard Lane
VAN DYKE, H. N., *Registrar*,
University Offices
van Dyke, H. J., 3d, *Fr. a*
39 Van Deventer Av.
VAN DYKE, P., *Professor*,
89 Library Pl.
VAN INGEN, G., *Assistant*,
8 Maple St.
VAN NEST, J. S., *Instructor*,
29 Bank St.
VAN RENSSELAER, A., *Trustee*,
Philadelphia, Pa.
Van Sant, R. M., *So. a* 6 E M W
Van Sickle, W. D., *Fr. a*
15 Bank St.
Van Wagenen, J. B., *Fr. s*
22 Van Deventer Av.
Vauclain, J. L., *Jr. s* 32 L
Vaughan, D. C., *Jr. a* 64 '79 H
Veit, R. C., *Sp. s* 71 L
Venable, E. C., Jr., *Jr. a* 32 '79 H
Vernon, C. W., Jr., *Fr. a* 9 W B
Vezin, C., Jr., *Fr. s* 31 Univ. Pl.
Voigt, E. R., *Fr. a* 63 U
Von Weise, L. B., *So. s* 6 S R

Voorhees, J. D., *Sr. s* 144 L
Voorhees, C. I., *Jr. a* 36 L
VREELAND, W. U., *Professor*, 180 Mercer St.

Wade, S. F., *Sr. a* 8 N R
Wadleigh, J. R., *Fr. s* 32 Wiggins St.
Waite, J. R., *So. a* 22 M D
Walcott, C. H., *Sr. s* 64 B
Waldron, W. J., *Sp. s* 16 Chambers St.
Walker, E. W., *So. a* 88 Nassau St.
Walker, G. A., Jr., *So. a* 4 M D
Walker, H. B., *Jr. a* 84 B
Walker, O. K., *g* 33 A S
Wallace, R. B., *g* Philadelphia, Pa.
Wallace, R. W., *Fr. s* 33 Van Deventer Av.
Waller, J. C., *Jr. s* 8 W M W
WALLIN, J. E. W., *Demonstrator*, 7 N Ed.
Wallower, E. Z., *Sr. s* 2 W B
Walsh, A. B., *So. a* 5 E B
Walter, H. A., *Sr. a* 63 B
Walton, R. L., *Sr. s* 7 B
Ward, C., *Sr. a* 122 L
Ward, E. S., *Sr. a* 23 B
Ward, W. M., *So. a* 1 E W
Ward, W. S., *So. s* 9 E M W
Warden, K. B., *Fr. s* Hill
Waring, E. J., 2d, *Sp. s* 51 B
Warner, D. L., *Fr. a* 47 Univ. Pl.
Warren, F. L., *Sr. a* 2 M D
Warren, G. S., *So. s* 1 W M W
WARREN, H. C., *Professor*, 257 Nassau St.
Washburn, A. P., *So. s* Hill
Waterhouse, P. B., *So. a* 9 N R
Waters, M. K., *Fr. s* 33 U P
Watkins, J. M., *Fr. a* 31 Univ. Pl.
Watt, W., *So. s* 88 Nassau St.
Weelans, C. H., *Fr. a* 11 S Ed.
Weems, F. C., *So. s* 49 U
Weiser, H. D. J., *So. a* 19 S Ed
Wells, G. T., *Sr. a* 52 B
Wells, L. P., *So. s* 66 Nassau St.
Wells, L. S., *Sp. s* 90 Nassau St.
WEST, A. F., *Dean of Graduate School*, Bayles Farm
West, D., *Sr. a* 12 B
West, W. T., *Fr. s* 36 Wiggins St.
WESTCOTT, J. H., *Professor*, 200 Mercer St.
Westcott, W. C., *Sp. s* 90 Nassau St.
Westervelt, W. W., *Fr. a* 32 Mercer St.
Wheeler, N. P., Jr., *Fr. a* 53 Univ. Pl.
Whipple, L. R., *So. s* 9 W M W
WHITE, H. N., *Instructor*, 11 S W B
White, J. McC., *Sr. a* 1 A S
Whitelaw, H. D., *So. a* 15 U
Whiting, F. B., *Fr. s* 172 Nassau St.
Whitlock, L. I., *So. s* Hill
Whitney, W. C., *Jr. s* 185 L
Whittemore, T. B., *Fr. s* 33 Ed. Pl.
Wiener, I. K., *So. a* B, U
Wiley, S. M., *Jr. s* 86 Nassau St.
Wilkinson, W. J., *g* 41 A S
Willard, D. C., *Fr. a* 21 Chambers St.
Willett, S. B., *So. a* 16 B
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